

Date Book
1933

Counting-House Calendar

1933

	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.		Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.
JAN.	1	2	3	4	5	6	7	JULY	2	3	4	5	6	7	1
	8	9	10	11	12	13	14		183	184	185	186	187	188	182
	15	16	17	18	19	20	21		9	10	11	12	13	14	8
	22	23	24	25	26	27	28		190	191	192	193	194	195	189
	29	30	31						16	17	18	19	20	21	15
	29	30	31						197	198	199	200	201	202	196
	29	30	31						203	204	205	206	207	208	203
FEB.	5	6	7	8	9	10	11	AUG.	6	7	8	9	10	11	5
	12	13	14	15	16	17	18		218	219	220	221	222	223	217
	19	20	21	22	23	24	25		225	226	227	228	229	230	224
	26	27	28						20	21	22	23	24	25	231
	26	27	28						232	233	234	235	236	237	226
	26	27	28						27	28	29	30	31		238
	26	27	28						239	240	241	242	243		
MAR.	5	6	7	8	9	10	11	SEPT.	3	4	5	6	7	8	2
	12	13	14	15	16	17	18		246	247	248	249	250	251	245
	19	20	21	22	23	24	25		10	11	12	13	14	15	9
	26	27	28	29	30	31			253	254	255	256	257	258	252
	26	27	28	29	30	31			17	18	19	20	21	22	259
	26	27	28	29	30	31			260	261	262	263	264	265	266
	26	27	28	29	30	31			24	25	26	27	28	29	273
APR.	2	3	4	5	6	7	8	OCT.	1	2	3	4	5	6	7
	9	10	11	12	13	14	15		274	275	276	277	278	279	280
	16	17	18	19	20	21	22		8	9	10	11	12	13	14
	23	24	25	26	27	28	29		281	282	283	284	285	286	287
	30	31							15	16	17	18	19	20	21
	30	31							288	289	290	291	292	293	294
	30	31							22	23	24	25	26	27	28
MAY	7	8	9	10	11	12	13	NOV.	5	6	7	8	9	10	4
	14	15	16	17	18	19	20		309	310	311	312	313	314	308
	21	22	23	24	25	26	27		12	13	14	15	16	17	11
	28	29	30	31					16	17	18	19	20	21	18
	4	5	6	7	8	9	10		19	20	21	22	23	24	15
	11	12	13	14	15	16	17		26	27	28	29	30	25	322
	18	19	20	21	22	23	24		330	331	332	333	334		329
JUNE	4	5	6	7	8	9	10	DEC.	3	4	5	6	7	8	2
	11	12	13	14	15	16	17		337	338	339	340	341	342	336
	18	19	20	21	22	23	24		10	11	12	13	14	15	9
	25	26	27	28	29	30			17	18	19	20	21	22	343
	1	2	3	4	5	6	7		344	345	346	347	348	349	350
	8	9	10	11	12	13	14		351	352	353	354	355	356	357
	15	16	17	18	19	20	21		24	25	26	27	28	29	30
	16	17	18	19	20	21	22		31						364

Date Book
1933



8012

Daylight Saving

During 1933 daylight saving schedules were in effect in some form in the following states or localities:

1. Conn. Certain Cities only 11. N. J. Certain Cities only
2. Del. " " 12. N. Y. " " "
3. Ill. " " 13. N. D. (see explanation)
4. Ind. " " 14. Ohio " " "
5. Maine " " 15. Penn. Certain Cities only
6. Md. Baltimore only 16. R. I. entire State
7. Mass. entire State 17. Va. City of Bennington
8. Mich. (see explanation) 18. W. Va. Certain Cities only
9. Minn. Certain Cities only 19. Wis. " " "
10. N. H. (see explanation) 20. Canada " " "

(1) Conn.—State law requires public clocks to show only standard time but all principal cities and towns observe daylight saving schedule. (2) Del.—daylight saving in force in Wilmington only. (3) Ill.—daylight saving observed in Chicago and Evanston and suburbs. (4) Ind.—important industrial localities such as Crown Point, E. Chicago, Fort Wayne, Garrett, Gary, Hammond, La Porte and Mich. City use daylight saving time. (5) Maine—illegal for public clocks to use other than standard time but Auburn, Bangor, Biddeford, Brunswick, Lewiston, Orchard Beach, Saco, Sanford, Spring Lake and Waterville on daylight schedule. (6) Md.—Baltimore only on daylight time. (7) Mass.—Daylight schedule by state law commences last Sunday in April, ends last Sunday in Sept. (8) Mich.—Many cities secure results of daylight saving by using Eastern Standard time. (9) Minn.—In Duluth and Minneapolis, many private firms observe d. s. time. (10) N. H.—State law prohibits d. s. observance. Manchester and Nashua start work one hour earlier in summer. (11) N. J.—All Metropolitan cities and most others on d. s. schedule. (12) N. Y.—Metropolitan area and most large cities and towns observe d. s. time. (13) N. D.—State law fixes Central std. time instead of Mountain time used formerly. (14) Ohio—State operates on Eastern std. time instead of Central time. (15) Penn.—Phil. Pits., Allentown, Ambridge, Beth, Braddock, Chester, Coatsville, Easton, McKeesport, Norristown and W. Chester on d. s. time. (16) R. I.—Entire state on d. s. time. (17) Va.—City of Bennington uses d. s. (18) W. Va.—Wheeling on d. s. time. (19) Wis.—State law prohibits public observance but private firms in Milwaukee use d. s. time. (20) Canada—d. s. time used by many towns and cities in Ontario and Quebec Provinces and in Regina, Sask.

Principal Cities

Ninety-five cities over 100,000, 1930 census

New York, N. Y.	6,981,927	Fort Worth, Tex.	160,892
Chicago, Ill.	3,375,329	Flint, Mich.	156,422
Philadelphia, Pa.	1,964,430	Hollywood, Cal.	153,294
Detroit, Mich.	1,573,983	Nashville, Tenn.	151,153
Los Angeles, Cal.	1,233,561	Springfield, Mass.	149,861
Cleveland, Ohio	900,430	San Diego, Cal.	147,897
St. Louis, Mo.	832,633	Bridgeport, Conn.	147,026
Baltimore, Md.	801,741	Scranton, Pa.	143,426
Boston, Mass.	787,271	Oes Moines, Iowa	142,469
Pittsburgh, Pa.	669,742	Long Beach, Cal.	141,526
San Francisco, Cal.	617,212	Tulsa, Okla.	141,281
Buffalo, N. Y.	573,070	Salt Lake City, Utah	100,184
Milwaukee, Wis.	572,557	Paterson, N. J.	138,267
Washington, D. C.	485,516	Yonkers, N. Y.	135,123
Minneapolis, Minn.	462,611	Jacksonville, Fla.	129,683
New Orleans, La.	455,792	Norfolk, Va.	127,804
Cincinnati, O.	409,331	Albany, N. Y.	127,558
Indianapolis, Ind.	442,842	Trenton, N. J.	122,610
Kansas City, Mo.	392,761	Kansas City, Kan.	122,327
Seattle, Wash.	365,518	Chattanooga, Tenn.	110,939
Indianapolis, Ind.	364,073	Cameen, N. J.	117,172
Atlanta, Ga.	347,991	Spokane, Wash.	116,010
Rochester, N. Y.	325,019	Elmer, Pa.	115,932
Jersey City, N. J.	315,642	Fall River, Mass.	115,301
Louisville, Ky.	307,808	Fart Wayne, Ind.	115,121
Portland, Ore.	301,800	Elizabeth, N. J.	114,557
Toledo, Ohio	290,803	Cambridge, Mass.	113,650
Houston, Texas	289,579	New Bedford, Mass.	112,836
Columbus, Ohio	289,056	Miami, Fla.	110,514
Denver, Colo.	287,644	Reading, Pa.	110,289
Oakland, Cal.	284,213	Wichita, Kan.	110,039
St. Paul, Minn.	270,883	Tacoma, Wash.	106,885
Dallas, Texas	262,397	Knoxville, Tenn.	105,797
Birmingham, Ala.	257,657	Canton, Ohio	105,524
San Antonio, Tex.	254,567	Wilmington, Del.	104,941
Akron, Ohio	253,653	Springfield, Ill.	104,806
Providence, R. I.	252,243	South Bend, Ind.	104,066
Memphis, Tenn.	252,049	Somerville, Mass.	103,604
Omaha, Neb.	214,175	Evansville, Ind.	103,151
Syracuse, N. Y.	207,007	Utica, N. Y.	102,633
Dayton, Ohio	200,225	Lynn, Mass.	102,327
Worcester, Mass.	196,836	El Paso, Tex.	101,975
Oklahoma City, Okla.	185,383	Duluth, Minn.	101,231
Richmond, Va.	182,883	Waterbury, Conn.	101,025
Youngstown, Ohio	170,004	Tampa, Fla.	100,910
Grand Rapids, Mich.	168,610	Gary, Ind.	100,740
Hartford, Conn.	163,818	Lowell, Mass.	100,300
New Haven, Conn.	162,650		

Legal Holidays

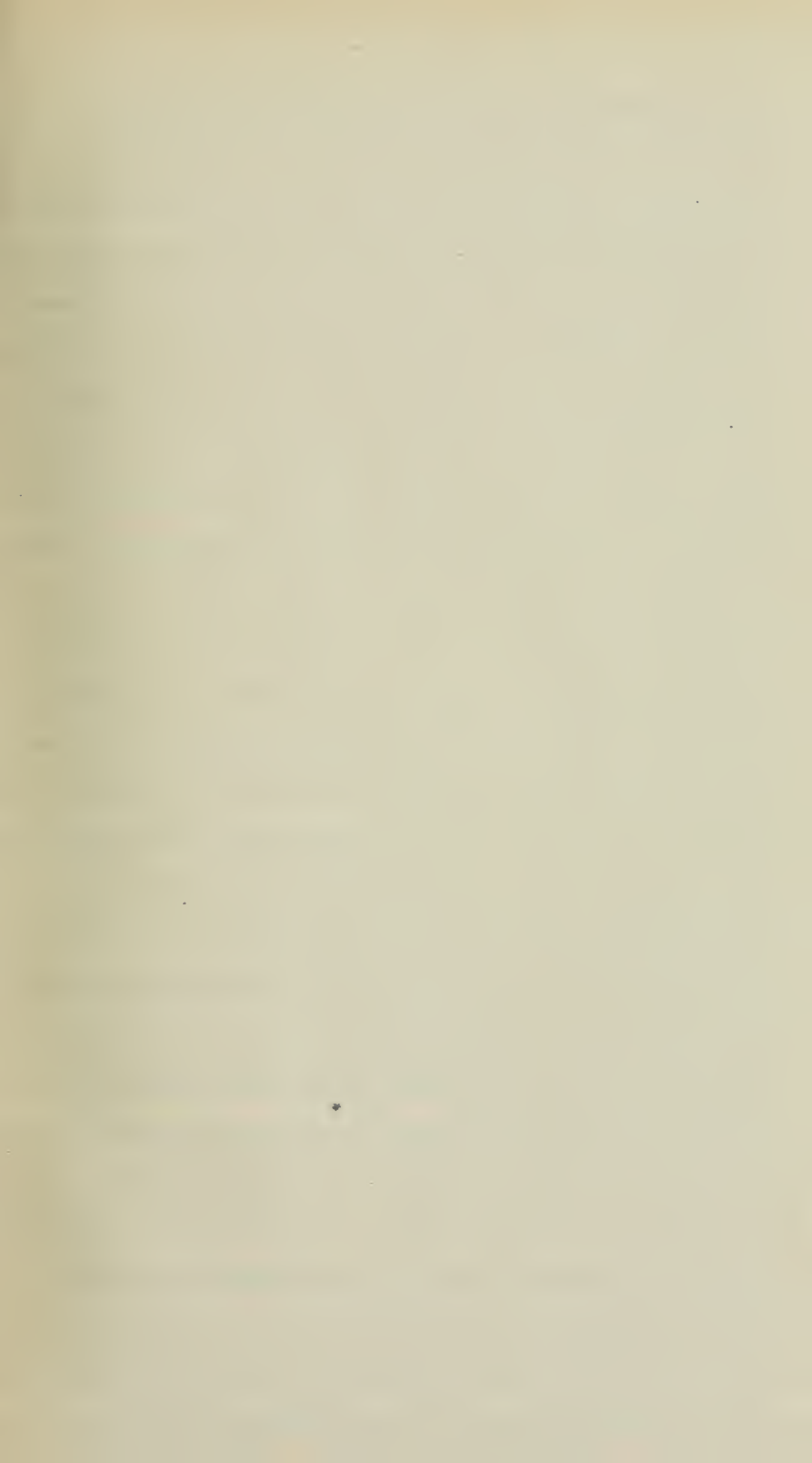
Holidays observed in all States
January 1 Labor Day
February 22 Thanksgiving
July 4 December 25

Ala.	Jan. 19, Feb. 17, Mar. 4, April 26, June 3, Oct. 9, Oct. 12, Nov. 11
Alaska	Feb. 12, Mar. 30, May 30, Oct. 12
Ariz.	(Ariz.) Feb. 14, May 30, Oct. 12, Elec. Nov. 11
Ark.	Jan. 19, June 3, Oct. 12, Elec. Nov. 11
Cal.	Feb. 12, May 30, Sept. 9, Oct. 12, Nov. 11
Colo.	Feb. 12, May 30, Aug. 1, Elec. Nov. 11
Conn.	Feb. 12, Good Friday, May 30, Oct. 12, Nov. 11
Del.	Feb. 12, Good Friday, May 30, Oct. 12, Nov. 11
D. C.	May 30
Fla.	Jan. 19, Feb. 17, Mar. 4, Good Friday, April 26, June 3, Oct. 10, Nov. 11
Ga.	Jan. 19, April 26, June 3, Nov. 11
Hawaii	May 30, June 11, 3rd Sat. in Sept. Nov. 11
Idaho	May 30, June 15, Oct. 12
Ill.	Feb. 12, (Feb. 25), (April 2), May 30, Oct. 12, Nov. 11
Ind.	Feb. 12, May 30, Oct. 12, Elec. Nov. 11
Iowa	Feb. 12, May 30, Nov. 11
Kan.	Feb. 12, May 30, Oct. 12
Ky.	Feb. 12, May 10, May 30, Oct. 12
La.	Jan. 8, (Mardi Gras), Feb. 17, Good Friday, June 3, Oct. 12, All Saints, Election, Nov. 11
Me.	April 19, May 30
Md.	Good Friday, Mar. 25, May 30, Sept. 12, Oct. 12, Elec. Nov. 11
Mass.	April 19, May 30, Oct. 12, Nov. 11
Mich.	Feb. 12, May 30, Elec. Nov. 11
Minn.	Feb. 12, Good Friday, May 30, Election Nov. 11
Miss.	Jan. 19, April 26, June 3

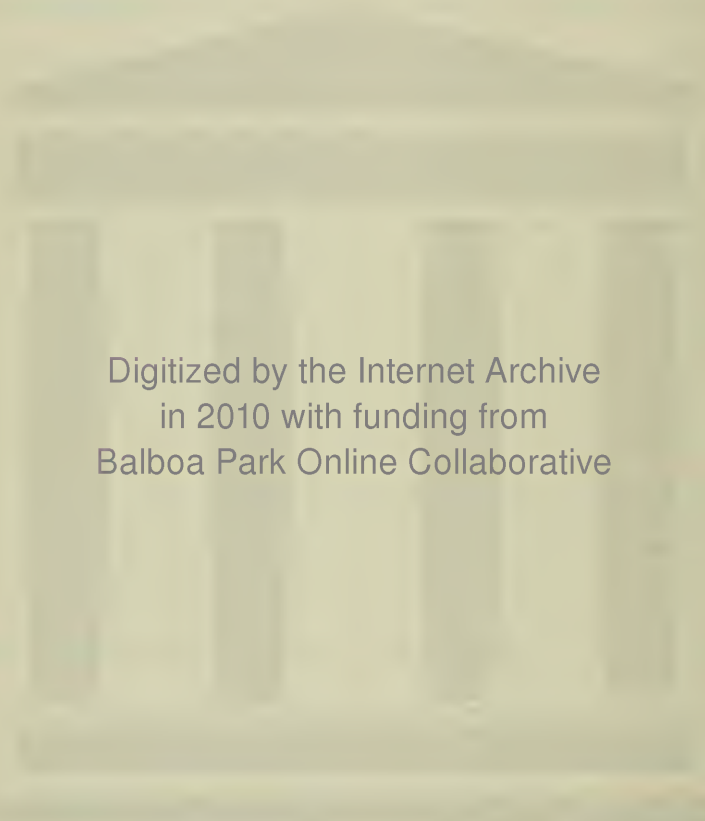
Legal Holidays

Mo.	May 30, Elec. Nov. 11
Mont.	Feb. 12, May 30, Oct. 12, Elec. Nov. 11
Neb.	Feb. 12, April 22, May 30, Oct. 12, Nov. 11
Nev.	Feb. 12, May 30, Oct. 12, Oct. 31
N. H.	Fast Day, May 30, Oct. 12, Elec. Nov. 11
N. J.	Feb. 12, Good Friday, May 30, Oct. 12, Elec. Nov. 11
N. M.	May 30, Oct. 12
N. Y.	Feb. 12, May 30, Oct. 12, Elec. Nov. 11
N. C.	Jan. 19, April 12, May 10, May 30, Nov. 11
N. Dak.	Feb. 12, May 30, Elec. Nov. 11
Ohio	Feb. 12, May 30, Oct. 12
Okl.	May 30, Elec. Nov. 11
Ore.	Feb. 12, May 30, Oct. 12, Elec. Nov. 11
Pa.	Feb. 12, Good Friday, May 30, Oct. 12, Elec. Nov. 11
R. I.	May 9, May 30, Oct. 12, Elec. Nov. 11
S. C.	Jan. 19, May 10, June 3, Election, Dec. 28
S. Dak.	Feb. 12, May 30, Elec. Nov. 11
Tenn.	Jan. 19, Good Friday, May 30, June 3, July 13, Election, Nov. 11
Texas	Mar. 2, April 21, June 3, Oct. 12, Elec. Nov. 11
Utah	Feb. 12, April 15, May 30, July 24
Vt.	May 30, Aug. 16, Oct. 12, Nov. 11
Va.	Jan. 19, May 30, Elec. Nov. 11
Wash.	Feb. 12, May 30, Oct. 12
W. Va.	Feb. 12, May 30, Oct. 12
Wis.	May 30, Elec. Nov. 11
Wyo.	Feb. 12, April 25, May 30, Election, Nov. 11

Holidays in Parenthesis O are not observed by all the Banks.
Holidays falling on Sunday observed the day after.
Notes and acceptances due on holidays are payable day after except Nevada and Texas, where payable day before.



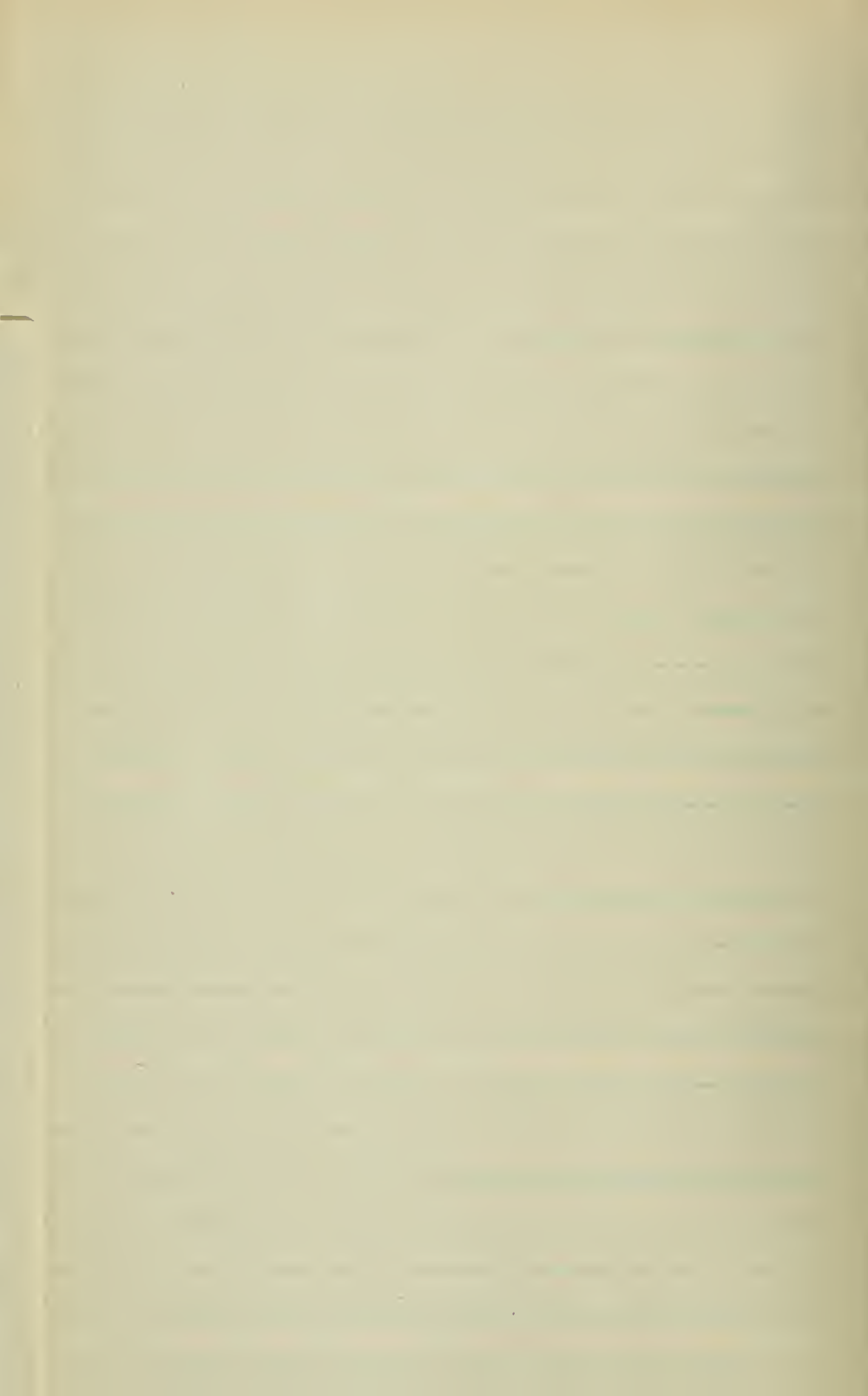
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SUNDAY, JANUARY 1, 1933\

1st
Day

Happy New Year

364 Days
to come

Spent the day putting away
South Dakota specimens; then
worked on fangs again. Particularly
worked on atrox.

MONDAY, JANUARY 2, 1933

2nd
Day

363 Days
to come

Put in the day scale counting,
putting specimens away etc.

Finally got started on a new
section of the paper - e.g. tail
length.

TUESDAY, JANUARY 3, 1933\

3rd
Day

362 Days
to come

Worked all evening on the
annual tabulation of A.D. Co.
material.

61 Specs arrived from MVZ
for examination today.

WEDNESDAY, JANUARY 4, 1933\

4th
Day

361 Days
to come

Took out UC snakes. Meeting
with City Council tonight

THURSDAY, JANUARY 5, 1933 \

5th
Day

360 Days
to come

Finished Annual San Diego County
tabulation.

FRIDAY, JANUARY 6, 1933

6th
Day

Epiphany

359 Days
to come

Philharmonic tonight.

SATURDAY, JANUARY 7, 1933

7th
Day

358 Days
to come

Worked from morning until 11³⁰ P.M.
on tail hats. First Saturday off.

SUNDAY, JANUARY 8, 1933

8th
Day

Battle of New Orleans

357 Days
to come

Counted some MVZ specs. with Phil. Otherwise worked on the tail-length data and made good headway.

MONDAY, JANUARY 9, 1933 ✓

9th
Day

356 Days
to come

Went to meeting of Fellows
tonight; not much else done.
Specimens from USNM arrived
today but not called for yet.

TUESDAY, JANUARY 10, 1933

10th
Day

355 Days
to come

Worked on tail length.

WEDNESDAY, JANUARY 11, 1933\

11th
Day

Alexander Hamilton—Born 1757

354 Days
to come

Worked on tail length.

THURSDAY, JANUARY 12, 1933

12th
Day

353 Days
to come

Tail length statistics

FRIDAY, JANUARY 13, 1933^v

13th
Day

352 Days
to come

a few tail length statistics.
Out to dinner tonight.

SATURDAY, JANUARY 14, 1933

14th
Day

351 Days
to come

Worked all day on the USNM
specimens (except part of the
afternoon) and finished about
30.

movie in the evening.

Attended the opening of the
new Natural History Building
for 4 hours in the afternoon.

At the Zoo today saw
a Trimorphodon from the Harrisons.
Ground color gray and spots
lighter brown than our coastal
specimens. 40 body spots;
anal entire. Tail not complete.

Developing a bad cold
this evening.

SUNDAY, JANUARY 15, 1933\

15th
Day

350 Days
to come

In bed with a cold all day,
feeling rotten. Nothing
done but a little tabulating

MONDAY, JANUARY 16, 1933

16th
Day

349 Days
to come

Worked on slides tonight.

TUESDAY, JANUARY 17, 1933\

17th
Day

Benjamin Franklin—Born 1706

348 Days
to come

Worked on snake talk tonight;
not much done otherwise.

WEDNESDAY, JANUARY 18, 1933

18th
Day

347 Days
to come

Finished checking USNM specimens
tonight.

THURSDAY, JANUARY 19, 1933

19th
Day

Robert E. Lee—Born 1807

346 Days
to come

Selected slides for talk tomorrow
night. Worked on tail length data.

FRIDAY, JANUARY 20, 1933

20th
Day

345 Days
to come

Started for Holtville at 2³⁰
this afternoon. Some rain and
plenty of snow from Alpine
to Mountain Spring. Arrived at
6³⁰.

Gave snake talk before Rotary
intercity meeting. N.C.

Started back at 10³⁰ and
arrived at 3³⁰ having stopped
at White Star for supper at
1 A.M. Put on chains. Plenty of
snow in the mountains.

Miles 259; in county in
daylight 81.

SATURDAY, JANUARY 21, 1933,

21st
Day

Stonewall Jackson—Born 1824

344 Days
to come

Up late today and spent nearly
the entire morning cleaning up
clothes and car after last night.

SUNDAY, JANUARY 22, 1933

22nd
Day

343 Days
to come

Spent the morning on the MVZ specimens of Oreganus. Finished the joint counts with Philip.

Spent the afternoon on tail length computations and made good progress completing all ratios except Oreganus from the north, which must await completion of MVZ specs.

MONDAY, JANUARY 23, 1933.

23rd
Day

342 Days
to come

Worked tonight on the statistics
of the venom yield of the South
Dakota series.

TUESDAY, JANUARY 24, 1933

24th
Day

341 Days
to come

Worked on tail length statistics
tonight.

WEDNESDAY, JANUARY 25, 1933

25th
Day

Conversion of St. Paul

340 Days
to come

Out to dinner tonight. Finish
Cal. Acad. brood of Oreganus
at noon.

Heffas were calling on Pt. Loma

THURSDAY, JANUARY 26, 1933

26th
Day

339 Days
to come

Tail length tabulations
tonight and made good progress.

FRIDAY, JANUARY 27, 1933_y

27th
Day

338 Days
to come

Company tonight.

SATURDAY, JANUARY 28, 1933~

28th
Day

337 Days
to come

Spent all day finishing
the MVZ Oreogadus. This took
longer than expected. Also made
some tail length computations.
Checked Trimeresurus and
Asiatic Agkistrodon and found
the replacement mechanism the same
as in Crotalus.

SUNDAY, JANUARY 29, 1933

29th
Day

William McKinley—Born 1843

336 Days
to come

Worked all morning and part of the afternoon on the tail length and got as far as possible without having the dispersion constants which are now ready for the lengthy numerical calculation. Then worked on the Venom section, putting in the South Dakota figures a rather difficult procedure. Quit at 9 P.M.

MONDAY, JANUARY 30, 1933

30th
Day

335 Days
to come

Spent the evening correlating
head length and venom yield of the
South Dakota series.

Recd today from Myers a large
gopher caught 2 mi N. of Panhus
Key mission.

TUESDAY, JANUARY 31, 1933 ✓

31st
Day

334 Days
to come

Spent the evening checking several sections. Not feeling very well.

WEDNESDAY, FEBRUARY 1, 1933

32nd
Day

333 Days
to come

Made a talk with slides this
noon at the Mason's Luncheon
Club.

Spent the evening on the long
numerical calculations of
the dispersion of tail length.

THURSDAY, FEBRUARY 2, 1933✓

33rd
Day

Purification

332 Days
to come

Finished the tail length section tonight except for a few figures to check.

FRIDAY, FEBRUARY 3, 1933

34th
Day

St. Blasé

331 Days
to come

Went to Philip's graduation.
Worked for a while correcting
the tail-length data.

SATURDAY, FEBRUARY 4, 1933

35th
Day

330 Days
to come

Worked all morning correcting some of the numerical calculations of the tail length data. Finished at noon so that this part of the paper can now be considered complete.

Started work on pines, and got organized on the tabulations. Out to dinner.

SUNDAY, FEBRUARY 5, 1933

36th
Day

329 Days
to come

Spent the day studying pines.
Didn't get any tabulations done,
but did get a fair idea of the
characteristics to consider.

Counted 16 San Patricios.

MONDAY, FEBRUARY 6, 1933.

37th
Day

328 Days
to come

Dr. Ray Hounsberry called tonight and was shown library and collection.

Got through some miscellaneous work.

Recd a small collection of rattlers from C E Burt; also a number of oregans from MVZ for examination.

TUESDAY, FEBRUARY 7, 1933

38th
Day

327 Days
to come

Went to El Cajon Rotary today
57 miles, warm and clear, nothing
seen.

Getting ready for trip to
S.F. tonight; also talk tomorrow.

WEDNESDAY, FEBRUARY 8, 1933

39th
Day

326 Days
to come

Gave an illustrated talk in
snakes to the 20-30 club at the
SD Center at 8 P.M.

Started for L.A. and S.F. at
midnight.

THURSDAY, FEBRUARY 9, 1933

40th
Day

325 Days
to come

Spent the day in Los Angeles
on business. Left for San Francisco
on the Sunset

On the train went over the entire
rattler paper as completed to date.
Made a summary of all ~~com~~
incomplete details.

FRIDAY, FEBRUARY 10, 1933✓

41st
Day

324 Days
to come

Busy with business matters
in San Francisco all day today

SATURDAY, FEBRUARY 11, 1933✓

42nd
Day

Our Lady of Lourdes

323 Days
to come

At CAS from 9 AM to 5³⁰ P.M.
Finished all incomplete details
on *Oreganus*, *atrox* and *scutellatus*

SUNDAY, FEBRUARY 12, 1933 v

43rd
Day

Abraham Lincoln—Born 1809 Georgia Day (Ga.)
Septuagesima

322 Days
to come

at the Academy today from
9 to 5³⁰; finished *tortugensis*,
cutosus and others.

Had my overcoat and laundry
stolen from Paul's car.

MONDAY, FEBRUARY 13, 1933

44th
Day

321 Days
to come

At the academy today from 8¹⁵ to 5²⁰. Completed *mitchellii*, *confluentus*, *rufer*, *pricei* and *sistrurus*.

As of this date practically every rattler at the academy has been fully checked.

TUESDAY, FEBRUARY 14, 1933

45th
Day

St. Valentine's Day

320 Days
to come

Business in San Francisco
all day today. Left for home on the
Sunset

WEDNESDAY, FEBRUARY 15, 1933^N

46th
Day

Battleship Maine Destroyed 1898

319 Days
to come

Arrived in San Diego at noon.
Spent the evening checking over
data secured in S.F.

THURSDAY, FEBRUARY 16, 1934

47th
Day

Mardi Gras (Ala., Fla., La)

318 Days
to come

Read today from Stones 5 oregans
from Davis

Read today from Bunt 49 fine
papers.

Tonight went to lecture on the
Poudan

FRIDAY, FEBRUARY 17, 1933

48th
Day

317 Days
to come

Checked the MVZ oreganus for
color this evening.

Locality record from one of
Drury's papers. Confluentus Norton, Kan.
Philharmonic tonight.

SATURDAY, FEBRUARY 18, 1933.

49th
Day

316 Days
to come

Spent the day on penes except for a short time clearing up odds and ends in the basement. Everything cleared up as of this date.

SUNDAY, FEBRUARY 19, 1933 ✓

50th
Day

Sexagesima

315 Days
to come

Worked all day and evening
(except for scale counts on about
40 *San Patricios*) and made good
progress.

MONDAY, FEBRUARY 20, 1933

51st
Day

314 Days
to come

Gave a snake talk this noon at the Chula Vista Rotary Club.

Came home via La Presa and Helix. 31 miles. No snakes seen. Got a horned toad on the road at La Presa; saw several skellies and utas. It was a clear warm day.

Tonight drew an outline map of Mexico and worked on penes.

TUESDAY, FEBRUARY 21, 1933

52nd
Day

313 Days
to come

Cook worked all day today
on pines and cleared up
quite a few. Finished paying
up his debt.

Read three papers from Burt
to look over.

WEDNESDAY, FEBRUARY 22, 1933

53rd
Day

George Washington—Born 1732

312 Days
to come

Worked all morning on penes making some headway. The counting is very difficult and in many ways unsatisfactory.

Spent most of the afternoon with Philip cleaning up the San Patricio series of young atrox which is now finished.

As of this date all rattlers in the collection are counted and put away with the exception of possible future counting of the South Dakota and Platteville series, which of course are only partly counted.

THURSDAY, FEBRUARY 23, 1933

54th
Day

311 Days
to come

Spent the evening checking peres
of confluentus and made good
progress. Recd from S.D. Museum
a Hypsiglena from Imperial Co.

FRIDAY, FEBRUARY 24, 1933

55th
Day

St. Matthias

310 Days
to come

Spent the evening calculating
averages of pens

Recd today from Pitt Walker
6 Atrox and 1 gopher. These were
not ordered.

SATURDAY, FEBRUARY 25, 1933 ✓

56th
Day

309 Days
to come

Spent all day and evening examining penes; practically finished numerical work and tabulations. Now ready for final write up.

Milked 6 atrox received yesterday from Walker. They don't appear to be fresh.

SUNDAY, FEBRUARY 26, 1933

57th
Day

Quinquagesima

308 Days
to come

Worked all day on penes
and finished first draft.
Picked 4 ctrox.

MONDAY, FEBRUARY 27, 1933

58th
Day

307 Days
to come

Today received from USNM a
shipment of rattlers for examination.

TUESDAY, FEBRUARY 28, 1933

59th
Day

Shrove Tuesday

306 Days
to come

getting forms ready for rattle
teculations.

WEDNESDAY, MARCH 1, 1933

60th
Day

Ash Wednesday—Lent Begins

305 Days
to come

Movie tonight.

THURSDAY, MARCH 2, 1933^v

61st
Day

Texas Independence Day

304 Days
to come

Rattle statistics tonight

FRIDAY, MARCH 3, 1933

62nd
Day

303 Days
to come

Philharmonic tonight

Recd today from Ayres a
large ring-neck from Ayres
taken at Point Loma.

SATURDAY, MARCH 4, 1933.

63rd
Day

302 Days
to come

Spent all day and evening
on rattle statistics

SUNDAY, MARCH 5, 1933\

64th
Day

First Sunday in Lent
(Quadragesima)

301 Days
to come

Spent the morning and part of the afternoon on income tax report and annual report.

Then worked on the USNM and made final check on about 39 specimens.

Spent the evening on rattle statistics

MONDAY, MARCH 6, 1933

65th
Day

300 Days
to come

Today had request from Bogert
for Salvadora.

TUESDAY, MARCH 7, 1933

66th
Day

St. Thomas Aquinas

299 Days
to come

Rattle statistics tonight.

WEDNESDAY, MARCH 8, 1933 ✓

67th
Day

298 Days
to come

Out to dinner tonight.

THURSDAY, MARCH 9, 1933

68th
Day

297 Days
to come

Talked to the children of
the Chula Vista School on
snakes this noon.

Finished USNM specimens
tonight.

FRIDAY, MARCH 10, 1933

69th
Day

296 Days
to come

The Interchange Committee came down for dinner and a meeting but the Long Beach earthquake (felt here with moderate severity) broke up the party and they left for Los Angeles.

SATURDAY, MARCH 11, 1933

70th
Day

295 Days
to come

Worked all day transcribing
complete rattle string data to
sheets.

Some people in to supper

SUNDAY, MARCH 12, 1933^v

71st
Day

Second Sunday in Lent

294 Days
to come

Worked all morning and completed transcribing complete rattle string data to sheets.

Worked in the afternoon on miscellaneous rattle data.

Out in the evening.

MONDAY, MARCH 13, 1933rd

72nd
Day

293 Days
to come

Recd today a shipment from
MCZ for examination.
Outfitted C.H. Anthony.

Meeting of the Fellows of Nat.
Hist. Soc. tonight.

Today saw a snake-bite case at the County Hospital. Took out preserved snakes and let the victim check them. He identified the culprit as oreganus.

He said he picked up a rock to smash a rattler (it was in mixed rocks and brush) and a second rattler which he had not seen bit him in the hand.

He slashed the wound and bled considerably. He got a dose of antiwainin in about 10 minutes. a second dose was given at the County Hospital at 3 P.M. He was bitten at 10 A.M. The snake was about 3 ft long.

When I saw the patient he looked pretty sick. The local symptoms were mild; but the systemic symptoms seemed serious. Evidently considerable shock. Also a rash.

WEDNESDAY, MARCH 15, 1933

74th
Day

291 Days
to come

Today went to Ramona to look
at some lines. A cool. part cloudy
day. Went out via Broadway, back
by Escondido. 85 miles.

One gopher Twp DOR Rosedale
grass.

Out to dinner tonight.

THURSDAY, MARCH 16, 1933~

75th
Day

290 Days
to come

Recd today a small garter
from Abbott.

Some tabulating of rattles done
tonight, then out to Philharmonic.

FRIDAY, MARCH 17, 1933

76th
Day

St. Patrick's Day

289 Days
to come

Worked on rattles tabulations
all evening.

SATURDAY, MARCH 18, 1933

77th
Day

288 Days
to come

Worked hard all day and late
into the evening on nittle statistics.

SUNDAY, MARCH 19, 1933~

78th
Day

Third Sunday in Lent
St. Joseph

287 Days
to come

Worked all morning on saddle tabulations; all afternoon on MCZ specimens. Finished the latter and packed them for shipment.

Recd from Allan a medium California King from Old Town.
got bit by a penguin

MONDAY, MARCH 20, 1933

79th
Day

286 Days
to come

Too tired to work tonight,
company.

TUESDAY, MARCH 21, 1933^N

80th
Day

First Day of Spring

285 Days
to come

Went to El Cajon Rotary Club
this noon. Out Broadway - back
Fletcher Hills. One Two Gopher
DOR at Chollas Hts. Lt Brush.
30 miles.

Accs this evening.

WEDNESDAY, MARCH 22, 1933V

81st
Day

284 Days
to come

Started for Long Beach with
Peck and Philip at 9 A.M.

A clear cool day. 1 m. lateralis
large DOR Torrey Pines grade. Brush.
miles in country 59. Nothing seen
beyond.

Left for San Francisco on the
Sunset.

THURSDAY, MARCH 23, 1933^v

82nd
Day

283 Days
to come

Worked in San Francisco
all day. Saw Alvin from 5 to
6 P.M.

Yelero III returned from Galapagos
today.

FRIDAY, MARCH 24, 1933

53rd
Day

282 Days
to come

Returned from San Francisco this noon.

Received today 4 small organs from CK Johnson.

Recd today from Gloyd a shipment of confluentus broods from Montana.

SATURDAY, MARCH 25, 1933

84th
Day

Maryland Day Annunciation

281 Days
to come

Spent the morning conferring with Perkins about his trip, also secured the specimens, which he had collected.

Opened a few of them and found many spoiled - some rotted others pressed out of shape. This from packing too tight and too soon after setting. The loose specimens are ok.

Picked 3 small snakes.

Started for Corte Madera at about 4 P.M. A cool cloudy day. Stopped for a few moments at the top of the new Viejas grade and got 3 Xantusia henshawi. A few other lizards were seen. Reached Corte Madera at about 5 P.M. Nothing seen on the road. 50 miles.

Hylas calling tonight but not very enthusiastically as it was quite cold; there was a heavy frost during the night.

SUNDAY, MARCH 26, 1933

85th
Day

Fourth Sunday in Lent (Mid-Lent)

280 Days
to come

This morning it was clear and cool. Drove down to Glen homely at 11³⁰ and returned at 2³⁰. Nothing seen on the road. 44 miles.

We hunted in several piles of rocks on the grade above the school. Got 2 fine ruhrs and several lizards. Oscar saw a small snake but it was not identified. The ruhrs were sunning themselves in little pockets amongst the rocks.

Returned home 4³⁰ to 6³⁰. One large lechanura DOR at Terrinitos. Rocks and brush. 50 miles. Grand total for the day 94.

MONDAY, MARCH 27, 1933

86th
Day

279 Days
to come

Worked on rattle statistics
tonight; also packed specimens
for shipment.

TUESDAY, MARCH 28, 1933

87th
Day

278 Days
to come

a few statistics tonight. Out to
dinner.

WEDNESDAY, MARCH 29, 1933~

88th
Day

277 Days
to come

Talked on snakes at the National City Kiwanis Club at noon.

Drove out Bonita road, then crossed over to Telegraph Road and back.

A clear warm day. 30 miles. 1 Juv. gopher DOR east of Chula Vista.

Brush. Also picked up an alligator lizard in Chula Vista.

THURSDAY, MARCH 30, 1933

89th
Day

276 Days
to come

Recd today a large lateralis
from Encinitas supposed to have
been eating gold fish, but it contained
only mammal remains.

Outfitted Tony Green this evening
with a rifle (the Stephens) and
some formalin for a 5 day trip to
the head of the Gulf of California.

Miscellaneous jelling etc tonight.

FRIDAY, MARCH 31, 1933✓

90th
Day

275 Days
to come

Went out to dinner and to hear
millikan's lecture tonight.

SATURDAY, APRIL 1, 1933

91st
Day

274 Days
to come

Spent the morning going over the Velero III material with Perkins and throwing out that which was too spoiled to save.

This afternoon at 2³⁰ went out to Suncrest with Perkins and Philip. Went out by El Cajon ave and the old grade & returned by the new grade and Fletcher Hills. Back at 4³⁰. It was overcast and cool so it was not surprising that no ulcers could be found although we looked in several good rock piles. A few skellies and xantusias were seen. 1 gopher M DOR at El Cajon, grass. 43 miles.

SUNDAY, APRIL 2, 1933v

92nd
Day

Fifth Sunday in Lent
Passion Sunday

273 Days
to come

Spent the entire day tagging and assorting the Perkins-Hancock material and almost finished the lizards. The identifications were very sketchily made however, and the mainland material will have to be done over again some day.

MONDAY, APRIL 3, 1933^y

93rd
Day

272 Days
to come

Worked on the Perkins collection tonight.

TUESDAY, APRIL 4, 1933~

94th
Day

271 Days
to come

Went to El Cajon Rotary Club this
noon. A cold cloudy day. 28
miles. Nothing seen

Worked on the Perkins collection
tonight

WEDNESDAY, APRIL 5, 1933~

95th
Day

270 Days
to come

Worked for a short time on the Galapagos collection. To dinner at La Jolla tonight.

April 15, Continued.

Around Laguna Hanson *orecuttis* were quite common but wary as usual. Skellies and *graciosa* were also seen and one x. h. was collected.

Most of us hunted until about 2³⁰ and then gave it up as it turned quite cool, windy and overcast. Looked like rain for awhile. All the way down to the lake is a rolling high mesa with scattered trees, first a park, then a divide etc. Laguna Hanson is a pair of lakes, the eastern shallow, the western deeper and more permanent but smaller in area. There are scattered pines about, and many huge granite boulders, smooth and rounding but with almost no flakes. Garter snakes are reported plentiful.

In the late afternoon hylas were croaking in the upper lake. Walked down to the lower lake but nothing of interest was found, except one garter snake.

Hunted at both lakes in the evening but got only 3 hylas. To bed at 9 P.M. in the lodge. Quite cold; about 30° F.

THURSDAY, APRIL 6, 1933

96th
Day

United States joined the Allies 1917

269 Days
to come

Talked on snakes at the Dutch
Treat Club at noon.
Out to dinner tonight.

FRIDAY, APRIL 7, 1933✓

97th
Day

268 Days
to come

Milked snakes at the zoo this
noon - 10 milkers, 5 oregames
Out to dinner tonight

SATURDAY, APRIL 8, 1933

98th
Day

267 Days
to come

Spent the day on the Perkins -
Galapagos collection, tagging and
identifying specimens, labeling bottles
etc.

Tony Green returned from his Lower
California trip. Collecting was poor
where they were. Got only 4 lizards.

SUNDAY, APRIL 9, 1933

99th
Day

Palm Sunday

266 Days
to come

Finished labelling and storing the Perkins-Galapagos material. Spent much of the afternoon scale counting Gloyd's Montana broods. In the evening finished all but one brood.

(April 24th Continued)

was quite dark so that they were not light struck.

They were mostly under tree yucca stems rather than common yuccas although both were present.

Reached Baker at 6³⁰. now clear and cold. From here on to Victorville it was increasingly cold and windy. Stopped on the Victorville bridge and heard Hylas but no californicus. Reached Victorville at 9⁵⁰. Miles for the afternoon 189; a very disappointing night drive. Total miles for the day 463.

MONDAY, APRIL 10, 1933

100th
Day

265 Days
to come

Heard today from Gander re
snakes as follows

1 Gopher 3-27-33

1 Garter 4-2-33

1 Gopher 4-6-33

all San Diego.

Went to meeting of Fellows of
Natural History Society tonight.

Outfitting Phil for a short
trip in the back country.

Went to the Chula Vista Rotary
Club this noon; 10 miles, nothing
seen.

TUESDAY, APRIL 11, 1933 v

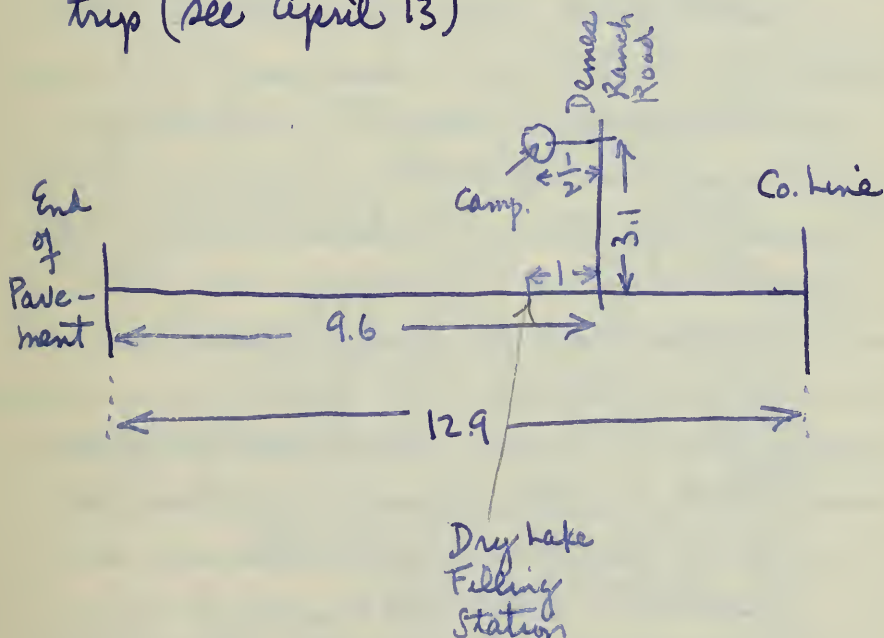
101st
Day

264 Days
to come

Phil went to the country this morning.

Went to El Cajon Rotary Club this noon. 30 miles. A clear warm day. Nothing seen.

Map of Umea locality, Perkins trip (see April 13)



WEDNESDAY, APRIL 12, 1934

102nd
Day

Halifax Independence Resolutions (N. C.)

263 Days
to come

Out to dinner tonight and then
to the Bailey Willis lecture on
earthquakes.

Phil returned tonight. poor luck.
His itinerary was as follows:

- 1 Garter DOR Ramona
- 1 " Shot at Banner. 5 Utas here
- 5 Utas at Foot of Penterac also
- 1 Boa L caught here. 4 P.M.

Started night hunt at 6³⁰.

- 1 Cally DOR ~ mi. W. of County line
- 1 " " 1 " E " " "

- 1 Coleonyx S Caught ~ mi. E of
County line

- 1 Coleonyx L Caught at highway
junction (Kane Springs)

Turned back at Truckhaven.

Yaqui Well at 10³⁰ Cool.

- 1 Uta 6 mi. S of San Felipe Junction
- Callys & whips seen at La Puerta
- " Caught at Vallecito

Uta shot at Vallecito

3 Graciosa at Carrizo (3³⁰ - 4 P.M.)

Highway at 5¹⁵ P.M.; Plaster City
Total miles for the trip 355

Hyades entered on 33 & imp. Co. maps.

THURSDAY, APRIL 13, 1933 ✓

103rd
Day

Thomas Jefferson—Born 1742
Maundy Thursday

262 Days
to come

Talked tonight to the Coronado
Civic Club on Snakes.

Fitch returned the Gerrhonotus
specimens.

The following are notes from Perkins
trip into the Boreys and the San Felipe Wash
April 13-14. Reported as cold and
windy on the desert.

1 C. e. mormon caught at Ballena

1 M. lateralis DOR at Witch Creek

1 T. o. hammondi caught at Santa Ysabel

1 C. ruber DOR San Felipe Valley

1 L. g. boylii caught San Felipe Valley
(in marsh at head of Sentenas)

✓ T. o. hammondi L caught here.

✓ X ✓ Coleonyx (given to me) caught 3 and
5 mi. E. of Narrows.

Hunted mostly 3.6 mi. N. of highway
0.5 mi. off of Dumes Ranch Road. ^(left) This
is 4.6 from Dry Lake filling station.

1 M. f. frontalis DOR Narrows.

Gridirin tail (only lizard not from
camp) if from Yaqui Well.

Yumas were found in low sand
hills, crowned with brush.

This afternoon started at 3³⁰ with Philip on a trip to Laguna Hanson, B.C. A clear, cool windy day.

1 C. ruber DOR Dulzina Summit Brush. S

1 M. lateralis DOR Cottonwood Brush M. Paved.

Met the rest of the party Riviera, Barnes, Cota, Barrett, Clark, Bater, Ted Myers at Tecate.

Had some little difficulty getting across in spite of advance preparations by Riviera.

Hyla regilla heard at Zacatosa.

Arrived at the Steam Shovel where we camped at 8 P.M. Alt 4710. Road after leaving the main road is rather rough.

Temperature this night 27° F. Too cold to sleep after 2 A.M. Up at 4 to tend fire.

Rest of party up at 5.

Miles for the day 85; 41 in SD. Co.

Tecate	0
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Valentin	11
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Branch Road to Neji	29
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Zacatosa	32
----------	----

(Leave main highway)

Japa	34
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Palo Gacho	42
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Steam Shovel (Camp tonight)	44
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San Pedro	57
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Laguna Hanson	70
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SATURDAY, APRIL 15, 1933

105th
Day

Easter Even

260 Days
to come

Before we started this morning a few logs were turned over and dormant skellies and utas were found beneath.

Started from camp at 7¹⁵. Stopped to hunt 4 mi S. of Steam Shovel and got Xantusia henshawi, skellies and orcuttis. Also at 7 mi. S. and 8 mi. S. and hunted for a short time. It is now 9 A.M. and quite warm. Many Utas are seen crossing the road. This is a high rolling mesa. Utas seen every hundred feet or so all along here. The road is rough and rocky. A small mitchellii was collected in the rocks 8 mi. S. of the Steam Shovel at alt. 5500. Utas seen again 10 mi. S. Hunted for quite awhile in granite in a park 11 mi. S. of the Steam Shovel. Orcuttis were common here but not collected. The granite does not flake properly for X.h. We found our first graciosa here. The altitude was 5600 ft. One skink seen but not collected at San Pedro, 13 mi. S. of Steam Shovel. Two Hypsiglenas were found under a large, thick side flake 2 mi. S. of San Pedro. Orcuttis were seen 3 mi. S. of San Pedro, and graciosa 3 mi N. of Laguna Hanson. Arrived at Laguna Hanson at noon. 26 miles today. 5600 ft. alt. Cota shot a racer.

Continued on April 5th

SUNDAY, APRIL 16, 1933

106th
Day

Easter Day

259 Days
to come

Up this morning at 5⁴⁵. Started for home at 8¹⁵. A clear cool day with considerable wind. Temperature at this time about 35° F. A few hylas were croaking.

The cold wind was too much for the lizards and they were not nearly so plentiful as on the previous morning. We stopped at a number of places to collect but with indifferent success. All through here the granite fails to flake.

Hunted for quite a while 8 mi. E. of Valentine. Here Xantusia henshawi was quite common but I lost many as they were quick. Pried off one very large side rock and found deep in the crack a large dark X.h. quite cold and dormant. This shows they do go deep into the rocks. Skelley's, orcuttis, utas were all common here. Got 1 witch. in the rocks. He saw me first and buzzed under my feet. Had to shoot him to prevent his escape in the rocks. Reached Tecate at 4 P.M.; still cold and windy. No trouble crossing.

Barnes came up with a small gopher from Zacatosa (afterwards found to contain the hind remains of a large skelley) & T.o.h. found under a log at Laguna Hansen and a large black Organus that had been
(see next page)

MONDAY, APRIL 17, 1933

107th
Day

258 Days
to come

Received today from Holly at La Mesa a ring neck L; also from Kobler a skink.

Recd a considerable shipment from Bud Hattcock. Gave 3 to Perkins at the Zoo. About 8 snakes and 4 lizards were dead; saved as many as possible.

Recd a considerable lot of pickled lizards from Perkins taken beyond the Narrows, including the first Anas from San Diego County.

Spent the evening on the collection including clerical work.

Continued from previous page.

sunning itself in a pancake coil amongst pine needles. This snake was very black like the Arizona Oreganus and like them changed color notably on preservation.

1 C. m. M DOR Cottonwood Brush.

1 P. c. annectens S DOR Jamul Fields.

Reached home at 5⁴⁰; cold and cloudy.

Miles today from Laguna Hanson, 110;
miles in S.D. County 41.

TUESDAY, APRIL 18, 1933~

108th
Day

257 Days
to come

Locality records.

C. c. oreganus Zacatosa. Seen on a
car at Tecate.

H. ochrochynchus 4 mi. S.W. of Harold
LACO from Boyett letter.

Recd last night from Tony Green a
large Pacific Rattler from Santee.

Recd today a small collection
from the Malings.

Returned the Montana broods
to Gloyd.

Dr. Ray Hounsberry called today
and discussed his paper. Gave him
some slides and 3 rattler specimens
for his presentation.

Messrs. Artran and Perkins, half
brother and brother of R M Perkins of
the St. Louis Zoo spent the evening
in the basement discussing collecting
and the plans for a trip into Arizona.
They gave me a gopher snake from
Laguna Beach. Also told me of finding
a red rattler and a Pacific coiled together
in Laguna Canyon about 2 mi. E. of the
town, and a red rattler in Aliso Canyon
not far from the mouth. The Pacific rattler
seemed to take the offensive and came
toward them.

WEDNESDAY, APRIL 19, 1933

109th
Day

Patriot's Day—(Mass., Maine)

256 Days
to come

Recd today 18 reptiles from Boswell.
Artran and Perkins came back this
noon. Outfitted them with 1- $\frac{1}{2}$ rifle (the
Sterns) 1-9 mm shot gun, a half gal
of formalin, 1 doz 2 qt jars, 1 doz 1 qt
jars, 1-1 gal jar, cleaning rod, 250-
 $\frac{1}{2}$ shells, almost 50-4 mm. shells, tags,
6 compartment snake box and other
miscellaneous material.

Pickled snakes tonight.

(April 22nd, continued from April 21st).

This location can be called Willow Beach;
the time was 3⁴⁰.

Proceeding along the winding road toward
the Dam callies were seen at the Devil's
Postpile and utas at several points including
Devil's Paint pot (4 mi. from the River).

Arrived at Las Vegas at 6⁰⁵; 123
miles from Kingman including 10
extra miles to go back for caps left
in restaurant at Kingman.

Took an evening trip down the
Los Angeles road for 31 miles (round
trip) It was perfect weather, clear
and cool but not a thing was
seen. This was from 8¹⁵ to 9¹⁵.
Very disappointing. Total miles for
the day 154.

Saw at the Zoo today a large red
racer from Tamaul 5'5" long

Pickled snakes tonight plus
miscellaneous filigree

(April 23^d Cont)

part cloudy and somewhat sultry. Found
4 X.V. in fallen yucca stems (common
yucca) of which we turned over a great
many. Other lizards were also found in
these stems especially utas and skellies,
but such collies and whysis as we took
were running loose. The Xantusias are not
plentiful; they seem small and dark when
found. Phil got one Coleonyx in a stem.

Utas were seen at Jumbo Mine. Going down
the Jumbo Wash toward the river, utas and
collies were seen at a number of points;
notably at 6 and 3 mi from the river. A whyssie
was seen 6 mi from the river.

Stopped to hunt for about $\frac{1}{2}$ hour at the
outlet of the Jumbo Wash along the river bank.
Here utas and skellies (2 kinds of uta) were to
be seen in the mesquite. Also one dip was taken.
Back up the wash a few hundred feet in
scattered rocks and thin brush, collies were
exceedingly common and easy to collect.
The lta ornatas were on branches mostly
(Continued on April 19)

FRIDAY, APRIL 21, 1933 ✓

111th
Day

Spanish American War Began 1898
Battle of San Jacinto (Texas)

254 Days
to come

Pickled about 44 of Bogert's
Xantusia vigilis today and sent the
rest to Bogert Walls, Hathcock, and
Boaswell.

Outfitted the Melings with $\frac{1}{2}$ gal.
of formalin and 300 shells.

Getting ready for trip to Hoover
Dam.

April 22nd - Cont.

1 Adult L DOR LT Brush, freshly run over
at 545 in the valley's way between Mountain
Springs and South Pass (saved specimen)

1 Patchnose L DOR Brush. Klinefelter (saved).

1 Red Racer S DOR LT Brush, edge of Needles.
arrived at Needles at 6¹⁵, 345 mi. Had

drepper. Clear & cool.

The drive from Needles to Kingman was
at a time which should have been
productive of snakes. Clear and cool;

little wind; 6⁴⁵ - 9³⁰. but nothing was
seen. This was a great disappointment

One colony of crossing the road just
south of Needles.

Turned in at Walapai Auto Camp.

Total miles for the day 413; miles in
SD, Co. 65.

SATURDAY, APRIL 22, 1933

112th
Day

253 Days
to come

Started from San Diego at 9 AM with gg Phil and Jack Ward for Hoover Dam via Kingman and Chloride. A somewhat overcast warm day. Clear in the back country.

1 Patchnose L DOR Brush Rosedale
Skellies were thick on the rocks at Lake Hodges. *Hyla polywogs* were seen in the creek at Escondido

1 Gopher M DOR Grass. Red Mountain Country line at 64.8

1 Red Racer M DOR grass Elsinore.

Also horned toads (DOR) and *Onocitis* (on the rocks) were seen in the hills north and east of Elsinore.

1 Gopher L DOR Grass March Field.

Arrived at Riverside at 12⁰⁵; clear and warm.

Horned toads DOR at Pan Bernardino, Verdmont and Cajon (RR Sta.)

Callies noted at Oro Grande, Helendale Hodge, Daguerre, Desert Rest (Garage) Troy, Hector, Minneola, Pisgah, Laurie, Ludlow, Ash Hill, Haynes, Ambury, Chambliss, Danby
Platyrhinos at Laurie (caught) and Argoz (lost)
Whiptail at Argoz (seen on road)

1 Patchnose L desert phase, light brush and sand, DOR at Ambury.

(Cont. on April 21st)

Started from Kingman for Hoover Dam at 9 AM (P.T.).

Stopped to hunt for $1\frac{1}{2}$ hours a little east of the branch road to Katherine. This was 5 mi. west of Kingman and $2\frac{1}{2}$ mi. E of Union; call this Union. There is here a wash with mixed brush, cactus, and common yucca. A perfect morning, warm and no wind. Utae are very plentiful, callis and wheyis moderately so. Phil shot one red racer in a bush. Saw 2 Xantusia vigilis under a dead yucca stem but lost them both. They are certainly not common here as this was the result of turning over many stems.

Utae were noted at Cerbat and Mineral. A magister was seen on a large boulder 3 mi. S. of Chloride, and a uta was collected there.

North of Chloride the Detrital Valley is first rocky, then very flat with thin dry brush, and no rocks. Then the road goes up a long alluvial fan with gradually increasing vegetation. Stopped $2\frac{1}{2}$ mi NE of Chloride (4 mi. SE of Hoover mine) and hunted for about an hour and ate lunch. It was warm
(Cont. April 20th)

MONDAY, APRIL 24, 1933

114th
Day

251 Days
to come

Started for Hoover Dam at 8⁴⁵. party of 15. picked up Watts at Boulder City. Then made a thorough inspection of the work both from the inspection points above and from the upper coffer dam below. One whiptail seen at the Substation. Lunched at Boulder City in one of the large messhouses.

Back at Las Vegas at 1³⁰; clear and warm yet nothing seen alive or dead on the road. Miles for the morning trip 74.

Started for Las Vegas at 4³⁰; now somewhat overcast and sultry with an occasional sprinkle of rain.

1 Red Racer S DOR at 17.8 mi (= Erie) Lt. brush.

1 long nose S DOR at 18.4 mi (= Erie) Lt. brush. This specimen had red moderately evident between the black

Stopped for a few moments in the common yuccas at Lakeview. Saw Uta stans but no Xantusia.

Hunted for *X. vigilis* in the yucca belt a mile or so west of Mountain Pass. Now cool and cloudy. Got 14 X. h. and a uta. Quite a few were lost as it was not cold enough to chill them and it
(Continued on April 9th)

TUESDAY, APRIL 25, 1933 v

115th
Day

St. Mark

250 Days
to come

Started from Victorville at 9 AM. A strong cold wind blowing. Very unfortunate weather.

Stopped in the Yuccas in Apple Valley 6 mi. E. of Victorville and got a few *Xantusias*. No use hunting anything else.

Stopped to hunt at Dead Man's Point at the south end of the granite mountains about 11 mi. E. of Victorville. A cold hard wind was blowing but it was fairly good weather in the lee of the rocks. Got utas and several small magisters. Under rocks got 4 colonyx, one very large. Also 4 *Xantusia vigilis*. These were under slabs just as *henshawi* would be in San Diego County; the rocks flake fairly well here. Saw one large chuck, but lost him.

Stopped for nearly an hour just east of Thorn. Here there is a good yucca (tree) forest. It was now blowing a gale and very cold. Got a number of *Xantusias*. Skellie's and utas were also seen under the stems. Started for home at 1:45; no use to do any more hunting because of the cold.

(Continued on April 26th)

WEDNESDAY, APRIL 26, 1933

116th
Day

Southern Memorial Day (Ala., Fla., Ga., Miss.)

249 Days
to come

Sick in bed with a slight fever;
chills last night.

On my return found a ring-neck
from the Campbell Ranch at Alpine. Dead

April 25th Continued.

1 Red Reece, L DOR Brush just north
of San Bernardino.

1 *lateralis* L DOR Brush Rosedale.

Arrived home at 6¹⁵; cold and
cloudy.

Miles for the day 184; 65 in
San Diego County.

Total miles for the trip (63881-62865)
1016.

On the whole a disappointing trip
(as far as collecting was concerned)
for less was secured than on
previous trips notwithstanding better
weather the first two days.

THURSDAY, APRIL 27, 1933 ✓

117th
Day

Ulysses S. Grant—Born 1822

248 Days
to come

Still in bed. Capt. Lewis with
the Strangers returned today with many
snakes from the Cape.

FRIDAY, APRIL 28, 1933

118th
Day

247 Days
to come

Today saw the very interesting material brought up by Capt. Fred Lewis of the Yacht "Stranger". As most of the material, when it dies at the Zoo, will ultimately come into my collection there is no need to list it.

The following points are of interest:

The large collection of Masticophis flagellum fenestratus shows a tendency to be dark brown all over in youth; as they grow older the posterior colors get lighter finally reaching a light yellow or a grayish white, while the heads and necks get blacker.

The hitches are yellowish brown rather than gray as were most of the Cape specimens I had seen. The heads seem small.

A young boa has beautifully clear stripes.

There was only one 'emys and this was dead on arrival.

The many C. lucasensis are much more clearly and brightly marked than ruber.

The two king snakes look more like kyllis than yumensis.

lucasensis was noted to disgorge rabbits and Kangaroo rats.

Still not feeling well today

SATURDAY, APRIL 29, 1933 v

119th
Day

246 Days
to come

Raining outside today.

Pickled snakes all day.

Walker and Knowles called this afternoon

Still feeling weak

Noted an unusually large Coleonyx
(No. 10838) 146 mm overall; 75 snout to
anus.

Today finished tagging the Hoover Dam
material and several other lots.

SUNDAY, APRIL 30, 1933

120th
Day

St. Catherine of Sienna

245 Days
to come

Spent the day milking snakes and pickling specimens; also packing material for shipment.

Milked 4 *Oreganus*, 2 *ruber*, 6 *mittchellii* (all from Cape San Lucas) and 36 *lucasensis*.

Got everything fairly well cleaned up.

Noted yesterday a *P. vertebralis* that disgorged three quail eggs.

Noted today a *M. f. frenatus* that contained the head and neck of a small snake, probably *Chilomeniscus* but will be checked later. (Yes *Chilomeniscus*)

Found in a medium *lucasensis* found several large fangs and several small ones. The latter could have come only from a small rattler as they were not immature adult fangs. Also there was gravel. (On second examination they proved to be solid teeth).

MONDAY, MAY 1, 1933

121st
Day

St. Philip and St. James

244 Days
to come

Went to Chula Vista Rotary Club today
20 miles; nothing seen.

Received a fine Lichamusa from Kux
at Graymas. Quite a surprise.

Recd a youngling gopher from
Benedict; caught at La Mesa.

TUESDAY, MAY 2, 1933

122nd
Day

243 Days
to come

Talked to the Electric Club on Snakes today.

(May 28th Continued)

Bufo woodhousii was noted $1\frac{1}{2}$ and *Bufo alvarius* 1 mi. N. of Gadsen. There were many toads DOR near Gadsen.

We turned around at San Luis and came north about 1 mi. to the bridge across the canal. *Bufo alvarius* DOR. here.

We hunted along the canal and in the flat toward the river and got whiptails and a dip. Also a scorpion and a shrew. On the whole the lizards here were disappointing. It was quite hot.

Bufo woodhousii DOR 1 mi. S. of Gadsen.

A dip was seen a short distance south of Yuma. The easterly roads are not as good as those toward the river.

We then crossed the river at Yuma and took the branch road to Algodones. A *Bufo alvarius* was DOR at Andrade.

We stopped to hunt a short distance north of Hanlon Heading and got
(Continued on May 3^d)

WEDNESDAY, MAY 3, 1933

123rd
Day

242 Days
to come

Too tired to work tonight; went
to a movie.

(May 3rd - Continued from May 2nd)
Whips, Dips and Cullys. Also saw Uta.
Dips were the most common and active
notwithstanding the heat.

1 *Sonora occipitalis* L DOR 1 mi W. of
Andrade branch. Desert. Call this Pilot
Knob.

Dips seen 16 mi. W. of Andrade junction.
The temperature is now 107° F.

1 gopher S DOR 2 mi. E. of Meloland
" " " " " "

1 gopher M DOR Meloland.

1 Red Racer L DOR El Centro.

(all of the above bordered cultivated
fields).

Reached El Centro at 2³⁰.

1 longnose L DOR 1 mi E of Myer's
Creek Bridge. Entirely black and white
except for a few scattered orange scales
in the center of the white areas on
the sides.

1 Banded Racer L DOR 1 mi. W. of Jacumba
brush.

1 gopher L caught by the side of the
road near Live Oak Spring
(Continued on May 4).

THURSDAY, MAY 4, 1933 ✓

124th
Day

241 Days
to come

Recd from Jack Ward & Arizona
elegans occidentalis from
Grantville: 1 large with head nearly
shot off; 1 small with alive.

- (May 28th Continued from May 3^d)
- 1 Gopher S. DOR Descanso Trees.
 - (We returned via the Old Vieja Grade).
 - 1 Banded Racer L DOR Vieja bush.
 - 1 Patchnose M DOR Flinn Spring
Orchard, bush.
 - 1 Boyles King L DOR Flinn Spring, bush
 - 1 Red Racer L DOR Bostonia, orchards.
 - 1 Long nose L DOR Fletcher Hills, grass.
 - Plenty red in this one.
 - 1 Boyles King S. DOR Fletcher Hills
Grass.

Moderately cool in the back country.
Reached home at 5³⁰. Miles today
227; in San Diego County 81.

The heat was too much for most of
the animals in the box on the trunk
rack. Even the sidewinder passed out.
Will have to carry them inside hereafter.

FRIDAY, MAY 5, 1933

125th
Day

240 Days
to come

Today outfitted Tony Green for his proposed six-weeks trip into Lower California with Tom Ballantyne. Gave him 1 Winchester single-shot rifles, 900 shells (he has some left over from a previous trip in addition), partitioned box with 12 $\frac{1}{2}$ gal. glass jars, 1-3 gal milk can, $1\frac{1}{2}$ gal. formalin, 2 saw rods, 1 flash light, tags, wrapping cloth, steel wool, map, collecting directions etc. Gave him full instructions and agreed to pay 50¢ per snake and 5¢ per lizard up to at least \$50.00 with restrictions as to the number from each place.

Out to dinner tonight.

SATURDAY, MAY 6, 1933

126th
Day

239 Days
to come

Notes on the boa from Guaymas:
Color Alive. Ridgway

Dorsal light stripes: Light pinkish
cinnamon 15"-Y-o-d

Dark dorsal stripes: Bone brown
13 OY-O-M

Ventral color: Pale pinkish buff
17" OY-f

A female. Contained mammal hair
and 3 developing eggs. 672-91c 23 $\frac{1}{2}$

Did not go on a trip today, although
one had been planned as Phil decided to
go to the Stafford-USC track meet in LA.

Spent the day on miscellaneous pickling,
filing and general catching up.

Today Tony Green's trip to lower California
with Tom Ballantyne is again off.

May 7th Continued.

of Elsinore. The distance to Capistrano is
34 $\frac{1}{2}$ mi (from Elsinore)

1 Garter L DOR Creek and grass 3 mi. E of
Capistrano

1 M. lateralis L DOR do

1 Gopher M DOR Rose Canyon Grass
Reached home at 4:45; now cold and
windy. Total miles 183; miles in San
Diego Co 118.

SUNDAY, MAY 7, 1933

127th
Day

Lusitania Sunk, 1915
St. Stanislaus

238 Days
to come

Started for Elsinore at 8³⁰; a clear cool day. With Griff Bancroft and Phil.

1 longnose L DOR grass Poway

1 M. lateralis L DOR grass Vista

Hunted on the new grade in the Elsinore mountains at alt. 2500 for about an hour. Got utas and skellies; orcuttis were seen and a young one was caught under a rock but got away later. There is considerable granite here but few flakes. The skellies are much more plentiful than the utas.

Got one medium gopher crossing the road 10 mi. W. of Elsinore. Grass trees.

Now getting rather cool and windy.

Stopped for lunch 11 mi. W. of Elsinore.

Here are oaks, willows and plenty of chapparal. Were warned by a deputy not to shoot in this game preserve. Hunted around and saw utas, skellies, orcuttis and whips.

Collected a *Hyala arenicolor* (on a rock in the creek as usual) and 19 *Triturus torosus*.

There is much granite here and a few flakes but they were negative as far as *Xantusia*s were concerned. Looked like good rattles country but had no luck. The Orange County line is 16½ mi. W.
(Continued on May 6th).

MONDAY, MAY 8, 1933

128th
Day

237 Days
to come

Chas. Williams

A party named Thomas who proposes to start a snake farm at Lemon Grove called today. He has a partner named Read at Fresno and they already have 1000 rattlers. He had many other wild yarns.

Went to La Jolla to a meeting of the Fellows of the Natural History Society tonight.

(May 14th Continued from May 9th)

Oncutis were plentiful here but none was collected. Got a large boa with considerable orange in the color in a vertical crack in a rock. A portion of his body was visible in the crack. Phil collected *X. henshawi* here.

Got a medium garter crossing the road at Warner's Hot Springs. Grass and a creek.

From here on home nothing was seen on the road alive or dead because of the recent rain and cold weather. This was a great disappointment.

Reached home via Ramona and Fletcher Hills at 5³⁰. Clear and cool. Miles today 175; miles in San Diego County 83.

TUESDAY, MAY 9, 1933

129th
Day

236 Days
to come

Unpacked specimens from Gloyd tonight and attended to miscellaneous specimens. Also arranged slides ~~from~~ tomorrow night.

(May 14th - Continued from May 10th)

A large *M. lateralis* DOR at the foot of the grade 7 mi. E. of Hemet. Brush and rocks. Saved the specimen. Uta also seen here.

Skelly $3\frac{1}{2}$ mi. N. of Sage on St. John's Grade.

Stopped to fix specimens near Lewis Valley, $4\frac{1}{2}$ mi. S. of Sage. Here was a medium Pacific Rattlesnake DOR. In brush. We got a number of lizards here including utas and skellies. Also 1 horned toad.

Here I found the first *Salvadora* above mentioned contained the hind quarters of a *C. wislizenii*. The small *M. lateralis* (first caught) also contained lizard remains, but these could not be identified.

Hunted for a while on the east base of Round Top Mt. 8 mi NW of Aguanga, here is granite with few flakes and brush. Got a number of lizards.

(Continued on May 8)

WEDNESDAY, MAY 10, 1933

130th
Day

Confederate Memorial Day (N. C. S. C., Tenn.)

235 Days
to come

Today at the zoo milked a C.t. deer-sized 1073 mm. long. Although the fangs were in good condition got very little venom (about 0.1 cc). Snake had evidently been in captivity a long time.

Talked to the 901st Co. of the Conservation Corps at Fort Rosecrans on the Snakes of Southern California tonight at 8³⁰.

(May 14 Continued from May 11)
Utas and skellies were exceedingly plentiful here.

A *Xantusia henshawi* was found under a flake 18 mi. W. of the junction. alt. 4500. There is gray granite here. Some of it looks rather good.

A second smaller *Salvadora* was found run over on the road 19 mi. W. of the junction. alt. 4550. This was at 11³⁵ Utas were plentiful here. This point was 13 mi. S.E. of Lake Hemet and may be called Vanderventer Flat.

Skellies were common between Lake Hemet and Keen Camp. Skellies were also seen on the down grade 5, 7 and 9 miles west of Keen Camp.
(Continued on May 9th)

Prepared some material for Barnett to take on his trip.

Today saw 13 *Trimorphodon lyrophanes* eggs laid yesterday. They average 30×17 mm. in size.

(May 14th - Continued)

and few flakes are seen. It was not possible to hunt here as this is a state game preserve.

At 11 AM we stopped again this time at Elevation 3050. and 10 mi W of the junction. Here were yuccas (common) and rocks; the rocks not well flaked. Got 1 *Xantusia henshawi*; also 1 *X. vigilis*; saw 2 other *vigilis* but lost them. These were all under yucca stems. Also saw utas and whiptails. The country here is much like Mountain Spring except that the rocks do not flake as well.

(Nightingale Ranch - 15 mi W of Junction)
Skelly noted 14 mi. W. of the junction.

A small *M. lateralis* was crossing the road and was run over by my own car in a rocky cut 16 mi. W of the junction, alt. 4070.

A *Salvadora* was found run over on the road 17 mi. W. of the junction. Alt 4300 ft. Rocks and brush. 11²⁵

(Continued on May 10)

FRIDAY, MAY 12, 1933

132nd
Day

233 Days
to come

Went to astronomy lecture tonight.
(May 13th Continued)

Clear and warm.

Started west from Brawley at 7 P.M.
Now dusk

1 Arizona Med. caught crossing the
road 3.4 mi. S. of Seaview (28 mi from
Brawley)

1 *Coleonyx* caught on the road 2.3 mi.
S of Seaview at 7³⁰. Now getting windy.

1 *Coleonyx* caught on the road at Tule
Wash (32 mi from Brawley) at 8¹⁰

1 *Coleonyx* (small) caught on the road
3 mi. N. of Truck Haven at 8⁴⁵

1 *Coleonyx* smashed on the road 1 mi.
further north at 8³⁰

1 *Coleonyx* caught on the road 5 mi
S of the Riverside Co line at 8³⁵ (= Fish
Spring).

The *Coleonyx* look like a piece of
paper blown across the road by the wind.
They seem to run with their tails curved
over their backs.

Riverside County line at 171.9. *B. Cognatus*
were heard at Oasis, Coachella and Indio.
Ran up the Palm Springs road as far as the
fork of the new Palms to Brea Highway. Now
cold and windy. Back to Indio for the night. 10²⁰ P.M., 218.3

SATURDAY, MAY 13, 1933

133rd
Day

232 Days
to come

Spent the morning preserving specimens.

Cook called this noon and sold me a few lizards from the Panamint Valley.

He gave me the following notes DOR from his trip

Boyles King, Chaffee, Kern Co

Sidewinder, Inyo " "

Chuckawalla, Red Hill, " "

Platyrrhinos, North China Dry Lake,
Inyo Co

Chuckawalla, Darwin Falls, Inyo Co.

Stephensi 10 mi. SW of Ballarat, Inyo Co.

Started for the desert with Philip at 3 P.M. Clear and cool after a cold rainy week.

1 Gopher L DOR El Cajon Fields

1 Gopher S DOR Bostonia. Orchard and grass.

Cloudy and cold from Viejas to Jacumba and beyond with signs of rain. Clear on the desert. County line at 79.1

1 Gopher L DOR 5.6 mi. S of Brawley (= Keystone) Irrigated fields.

Arrived at Brawley at 6¹⁵, 125.6 mi.

(Continued on May 12.)

SUNDAY, MAY 14, 1933

134th
Day

Mother's Day

231 Days
to come

The poor hunting last night was undoubtedly due to the cold weather of the previous week as was the lack of dead snakes seen on the road today.

Started from Indio this morning at 7⁵⁰ a clear warm morning.

First visited Gt Walker $\frac{1}{2}$ mi. NE of Indian Wells. Bought what rattlers he had, viz. 2 large and 3 medium atrox, 11 lbs for 2⁷⁵. He said the season was poor a/c cold weather.

Hunted in the sand hills near Indian Wells until 9⁴⁰. Plenty of lizards were seen but we got only a few. Several snake tracks were seen including sidewinder tracks but we had no luck finding them. Walker says he gets most of his snakes by following their tracks. The atrox are around the mesquite hummocks.

Turned off at the Junction up the new Palms to Pines Highway at 9³⁰. This is 11 mi from Indio.

Uta and Dip's were seen 2 mi. W. of the Junction and a uta 5 mi. W.

We first stopped to hunt 7 mi. W. of the junction and got 1 Chuck, 2 Xantusia henshawi. Saw a collared lizard. This was at elev. 2080. The rocks here are not of a good consistency.
(Continued on May 11)

MONDAY, MAY 15, 1933 ✓

135th
Day

230 Days
to come

Talked at the Chula Vista Junior
High today on snakes
1 Gopher L DOR Grass Chula Vista
Paved specimen.

15 miles.

Company and movie tonight.

TUESDAY, MAY 16, 1933

136th
Day

229 Days
to come

Worked in the basement tonight
packing material for shipment.

Read today

1 Ring Neck	City R. Mc Collum
1 Long nose	} Jack Ward
1 Garter	

WEDNESDAY, MAY 17, 1933

137th
Day

228 Days
to come

Recd today from Carl Kilgore
a medium spotted night snake from
Spring Valley and from P.M. Myers
a large horned toad from Grantville.
bet the dog nose the latter and it
promptly spit blood.

Some more detailed locations from
last Sunday's trip are as follows:

2 mi W. of Junction = Dead Indian Creek

5 " = "
7 mi. W of Junction (2080) = Near Junction
of Grapevine and Dead Indian Creeks

10 mi. W. of Junction (3050) = 1 mi NE of Black
Hill

14 mi. W of Junction = Pinyon Flat.

15 mi. W of Junction = Nightingale Ranch.

16 " (4070) = "

17 " (4300) = Vanderwenter Flat

18 " (4500) = "

19 " (4550) = "

(13 mi. E. of Lake Hemet).

Gleneagle Ranch is about 2 mi E of Lake Hemet

Thru. W of Keen Camp = Strawberry Creek

7 mi. E. of Hemet = Valleirista

Tonight outfitted Tony Green with 4 - 1 gal
bottles, 1 qt Formalin, 200 shells (he has more)
and some sacks. 2 Winchester single shot rifles,
for a 5 day trip to Laguna Hansen. 5⁰⁰ for all he can
collect.

THURSDAY, MAY 18, 1933

138th
Day

227 Days
to come

Miscellaneous filing tonight;
photographs particularly.

Spent the evening tagging specimens and putting them away.

Recd today from P.M. Myers a large gopher from ~~Grantville~~ Otay and from Vergil Parkinson (last week) a small Pacific Rattlesnake from Grantville.
(May 20th Continued)

Our route was El Cajon Ave and Highway to Myers Creek Bridge, return to Buckmans, thence to Campo and return via Potrero Grade, Jamul and Broadview extension. Reached home at 6⁴⁰. Total miles 187; miles in San Diego County 170.

Snakes seen were as follows:

- 1 Cal King L^{DO} & Flinn Spring Creek - grass
- 1 Small gopher Caught on Guatay Brush-grass
- 1 M. lateralis L Lost on Buckmans Brush
- 1 J. gopher DOR Buckmans grass
- 1 J. gopher DOR Live Oak Springs Brush
- 1 M. lateralis L Lost on DOR Boulevard Brush.
- 1 Boa M Caught off Mt Spring Rocks
- 1 M. lateralis L Lost on 6mi N of Campo. grass.
- 1 garter S. Caught off Pond 3mi. S of Buckmans
- 1 J. gopher DOR Jamul grass
- 1 Red Rattlesnake DOR Jamacha Grass M.

SATURDAY, MAY 20, 1933✓

140th
Day

Signing of Mecklenberg Declaration
of Independence (N. C.)

225 Days
to come

Today went on a hunting trip to Mountain Spring with Philip Cy Perkins, and Bob Knowles. Started from the Zoo at 8⁵⁰. Clear and cool.

First stopped to hunt on the flat beyond Mt. Spring. Got a medium boa crawling in the rocks, and several different kinds of lizards. Tried a few yuccas for *Xantusia vigilis* without success. There are not many to be found. Flakes also are comparatively few. Got only one *Xantusia henshawi* and lost one. In addition to the lizards collected many orcuttis were seen — too many to catch.

Next stopped at Myers Creek Bridge, looking for lizards under rocks. Got 2 Chucks. Saw plenty utas and uta meansi.

Next stopped at the pond 3 mi. S. of Buckmans but found no frogs here. Skellies and orcuttis were seen.

Was just comfortably warm at Mt. Spring and below and quite windy. We did not stop to hunt until 4³⁰ and this is really too late.

(Continued on May 19)

SUNDAY, MAY 21, 1933 ✓

141st
Day

Rogation Sunday
Lindberg Landed in Paris, 1927

224 Days
to come

milked rattlers today ; total 15.
Also pickled many specimens and
tagged others. lucky we did not
go out on a two day trip yesterday
as it was exceedingly stormy with
wind and rain.

(May 22nd Continued)

Platyrrhinos bet Mecca and Hidden Spr.

Stopped at Long Beach to see Tex Schubach
(whom I missed) and young Woodall who
had the Xantusias reported from Catalina.
Was astonished to find they were vigilis.
He says the boy who found them is
reliable. Took the specimens, 3 alive, 2
preserved, and may keep one.

He also had a spotted rite from
Palos Verdes ; this I did not see.

Hylas were heard at Long Beach.
Reached LA at 8⁴⁰

This noon saw one of the T. cyrophanes from the Cape eating a linnet.

Tried to take pictures of rattler vs gopher after a mouse on the lawn this noon. Success not very good.

At 2³⁰ started for Los Angeles. A clear cool day after the storm of yesterday.

- 1 Boyles King L DOR Rose Canyon, Grass
- 1 Garter M DOR Torrey Pines, Brush
- 1 Red Racer L DOR Solance Beach, Grass
- 1 Gopher L DOR La Costa, Grass
- 1 Red Racer M DOR S. Oceanside, Grass.
- 1 Gopher S, DOR Oceanside, Grass.
- 1 Boyles K, L DOR San Clemente, Grass
- 1 Red Racer, M DOR Coast Royal, Grass
- 1 Gopher M, DOR Emerald Bay, Grass

County hipe 55.4

Stopped at Laguna Beach from 4³⁰ to 6 and talked to Artran and Perkins. Received from them a number of preserved reptiles and the following locality records:

Flat-tailed Horned toad 8 mi W. of Calexico

Dipsosaurus. American Girl Mine

Med. Atriox 2 mi E of Mohawk on US 80

at about 9 PM - a cold night.

Shovel-nose. Mecca City limits

Chucks - Hidden Spring Canyon.

(Continued on May 21)

TUESDAY, MAY 23, 1933 ✓

143rd
Day

222 Days
to come

Started back from Los Angeles at 11³⁰; reached Santiago at 4⁰⁵. Total miles for the trip 362. With Uhlenberg.

1 Gopher L at Balboa

✓ Snakes were seen on the road but couldn't stop; I was at Las Flores, the other at Rose Canyon.

Whlendorf at supper. Went to a movie.

Tony Green returned tonight from Laguna Hansen; he got very little.

(June 11th Cont from May 29th)
Hansen and the border Gg.

1 Racer (lateralis) M DOR Jamul, brush.

1 Boyles King L DOR Chollas Hts, brush
and grass. Saved specimen.

1 Gopher M DOR Chollas Hts, brush.

Reached home at 5⁰⁰ P.M. Miles for the day 112; 44 in San Diego County.

Today we got 4 oreganus, 1 gopher, 1 racer (contains an S.g.v.) and 5 garters at the lake.

Spent the evening putting away equipment and specimens.

Philip went to South Coronado Island today. His party got 3 snakes and a number of lizards.

THURSDAY, MAY 25, 1933

145th
Day

Ascension

220 Days
to come

A warm day. Went out to Point Loma.
6 miles. Nothing seen.

Talked snakes at the Rotary Club
this noon.

Miscellaneous fling and recording
tonight. Put away many specimens.

Further records of Arizon and Perkins
Desert gopher 3 mi. S. of Calipatria.

Recd later a small gopher taken
this day in East San Diego by Barnett.

(May 27th continued from May 26th)

Too tired to hunt; turned in at the
Sunshine Auto Court.

The evening drive was a little
disappointing except for the
*Coleonyx*s which seemed very plentiful.
The weather was perfect, warm
and pleasant; almost no wind.

FRIDAY, MAY 26, 1933

146th
Day

219 Days
to come

Today outfitted Schroeder for his prospective trip to the islands. Winchester single shot rifles; 300 shells, 4 gallon jars, 6-2 Qt Jars (all jars $\frac{1}{2}$ full of formalin) collecting instructions, tags, scissors.

(May 27 Continued)

- 1 Gopher S DOR Dixie land. Cult. field
- 1 Gopher M DOR 1 mi. E. of Dixie land Cult. fields.

Reached Calxico at 9 P.M. Now quite hot.

1 Sidewinder L. Caught on the road at 9³⁵ P.M. 4 mi. E. of Bond's Corner. Desert

1 Coleonyx Caught at 9⁴⁰. 6 mi. E. of Bond's Corner.

1 Flat-tailed horned toad DOR 2 mi. W. of Midway Well Junction.

1 Coleonyx caught on the road at the Sand Hills.

Hunted for a short time in the Sand Hills but got nothing.

1 Arizona L DOR Desert on eastern edge of the Sand Hills. Saved this specimen.

Reached Yuma at 11³⁰. Now cool and comfortable. 180 miles; 80 in SD Country

(May 27 Continued on May 28)

Barrett returned from Wyoming with a few specimens.

Spent the morning taking care of specimens.

Started for Yuma with Philip and Jack Ward at 5¹⁵ P.M. (65258) It was cold and overcast in town but clearing at La Mesa and clear beyond. Cool in the back country and mountains, which probably accounts for the few snakes seen.

1 Gopher L DOR Bankhead Spring
Rocks - brush.

1 Mitchellii M Caught on the road at 7¹⁰.
1 mi. up the grade from Mountain
Spring. Rocks.

1 Sonora caught on the road at 7³⁰ near
Coyote Well. Desert. It is now warm
and pleasant.

1 Coleonyx L at Coyote Well. (Ran over
this one but preserved him tailless).

1 Small Coleonyx caught 2 mi. E of
Coyote Well

1 M. Coleonyx 2.3 mi. E. of Coyote Well.
Also a cally D.O.R.

1 M. Coleonyx 3.2 m. E. of Coyote Well.

1 Coleonyx seen at Plaster City.

(Continued on May 26th)

SUNDAY, MAY 28, 1933

148th
Day

St. Augustine

217 Days
to come

This morning at 8 we started around the Yuma Delta district taking the westerly roads on the outward trip and the easterly on the return. This territory proved unusually interesting and judging but the numbers of dead snakes and toads seen it ought to be a worthwhile place to tour in the early evening hours.

1 Yuma King Snake M DOR 3 mi. W of Yuma. Alfalfa fields. The stripes are very narrow and dark; all the light scales are edged with darker.

1 Marcy's Garter Snake M. DOR 3 mi W. of Yuma. Fields.

1 Gopher Snake S. DOR. 6 mi. North of Somerton. Fields.

Bufo alvarius 3 mi. W. of Somerton.

1 Gopher Snake L DOR 4 mi. W. of Somerton. Fields. Saved this specimen.

Hunted for a while 2 mi. N. of Gadsen along the banks of an irrigating ditch. Got a Rana pipiens and a number of tiny toads. Lost a juvenile gopher snake which seemed about to drink from the ditch. Whiptails were also seen here
(Continued May 2nd)

Bancrofts called tonight and
Guffing, Jr. brought several lttas
from Socorro Island. Talked until 9⁴⁵
(June 11th Continued from June 6th)

Meanwhile he was resting easy; not
excited or worried. Little swelling. Some
facial paralysis. The tourniquet was
gradually loosened to permit the ant-
venin to act.

We contacted the McIntire party only
once on the way in. By this time the
hand was much swollen; forearm
also and painful to touch; some
swelling at the arm pit. The tourniquet
was entirely loosened. Facial paralysis
less.

Dr. Crabtree called soon after we
got back. Said he would give about 5cc
more of antivenin part at site of bite,
part intravenously. Also have him to
hospital to be watched. I cautioned him
to be on the lookout for respiratory symptoms.

On the return trip we observed
Orcutti at San Pedro (13 mi N of lakes)
and whiptails 3 mi S. and 2 miles
north of the Steam Shoal (26 mi. N. of lakes).
The junction is 38 miles from Laguna
(Continued on May 24)

TUESDAY, MAY 30, 1933

150th
Day

Memorial Day
St. Joan of Arc

215 Days
to come

Worked all day and evening in the laboratory. Pickled more than 40 snakes and milked 28. Also packed several shipments. A hard day.

(June 4th Continued)

1 Gopher M DOR 5 mi. W. of El Centro. Fields.

Hunted for a while at the foot of the grade. Got 2 small chucks and saw a number of lizards, but none new to this locality.

Hunted for a short time for X. vigilis at Boulder Park. There are yuccas here but the results were negative. Saw utas, whips and a leopard lizard. Was quite cold.

Saw uta and whip at Live Oak Springs.

1 Gopher S DOR Alpine Grass

1 Boxles King L DOR Bostonia, Orchards

1 Gopher L DOR East San Diego, Grass

1 Gopher M DOR East San Diego, Grass

Reached home at 3 P.M. Cool and cloudy. Total miles for the trip 401; for the day 173; in the County 81.

Milked rattlers from Washington tonight; total 51.

WEDNESDAY, MAY 31, 1933

151st
Day

214 Days
to come

Talked on Snakes to the State
College extension class at the
Zoo Research Building at 7³⁰ tonight

(June 3^d Continued from June 1)

Turned in at 11⁵⁰ at the Sunset Auto
Court at Yuma. Badly bothered by
mosquitoes all night.

Miles to County line 82; to Yuma 176;
miles for the day 448.

Too tired to do anything tonight except thread tags.

(June 3^d continued from June 2nd)

From this time until nearly midnight we drove the Somerton-Gadsden loop going as far south as San Luis. We heard toads at many places and saw a good many crossing the road, particularly Woodhouseii, which seems to be the most active and plentiful. It can be said that all three species are everywhere where there is irrigation, so frequently are they heard.

The calls of the three are easily distinguished. Cognatus makes a chattering roar. Woodhouseii gives a mournful bellow like a calf with a hoarse throat. Alvarius has a deep froglike croak.

We found the hunting best in shallow drainage ditches. In such places all three were to be found, the two smaller near the banks; the larger in deeper water. Woodhouseii was most plentifully seen. We took all the alvarius we could get; about 20. One pair of each woodhouseii and alvarius were found in cop. Later in captivity many eggs were laid.

(Continued on May 31)

FRIDAY, JUNE 2, 1933

153rd
Day

212 Days
to come

Talked on snakes this noon at the La Jolla Kiwanis Club.

Went out via Causeway; returned via Rose Canyon. 30 miles.

1 Cal King Wred Rose Canyon grass
1 Gopher Small Old Town. Grass

Went to the High School concert this evening.

(June 3^d Continued)

1 Flat-tailed horned toad 9 mi. W. of Midway Well. Caught on the road. This was at 5⁴⁵ P.M.

Cally and Uma (latter saved) 6 mi. W. of Midway Well.

Uma L (saved) 4 mi. E. of Midway Well

Reached Yuma at 7 P.M. P.T. Clear, cool and comfortable with a mild breeze; as it was all evening.

Caught a small gopher crossing the road 5 mi. W. of Yuma (on the North Sonoran Road). Also a large Sonora episcopa 6 mi. W. of Yuma. Both of these were early in the evening; but it was quite dark. As usual the snakes seemed most active immediately after dark, as no additional specimens were seen in nearly 50 miles of driving.

(Continued on June 1)

SATURDAY, JUNE 3, 1933

154th
Day

Jefferson Davis--Born 1808

211 Days
to come

Spent the morning tagging and filing specimens and loading the car. Also got bottles and preservative ready for Major Chapman Grant who called up and advised that he would be stationed at one of the reforestation camps.

Took the bottles down to the station but missed Grant and also lost the dog which caused more delay. He found his way home at 1 P.M.

Finally got started for the desert at 1:30 a part cloudy and medium cold day; with Phil. and Mr. & Mrs. Cey Perkins. Clear and cool in the back country.

Left 3 empty snake boxes and 6 sacks for Tennant Brooks at Pine Valley reforestation camp.

1 Boyles King S DOR Grass Flinn Spring
1 Pacific Rattle M DOR Brush Live Oak Spring
1 Gopher S DOR Grass-Trees Live Oak Spring

Still squirring; saved specimens.

1 Arizona M DOR Brush Boulder Park.

1 Wislizenii DOR Boulder Park.

1 Red Racer S DOR Sand and Rocks (desert)

Myers Creek Bridge.

1 Gopher M DOR Holtville. Irrigated fields

Good condition; saved specimens

(Continued on June 4th)

SUNDAY, JUNE 4, 1933.

155th
Day

Whitsunday—(Pentecost)

210 Days
to come

This morning we started from Yuma for home at 7³⁰. Took much time packing the specimens so they would successfully withstand the desert trip which afterwards proved unnecessary as it was quite cool and windy all day, in fact cold in the mountains. It was overcast on the desert.

We first stopped at the sand hills and collected a number of *Uta* alive. We found they usually buried themselves in the sand in the vicinity of bushes growing on the sides of long slopes at the critical angle. By digging away the sand below a general slide would be caused. The lizards would then try to keep themselves buried by swimming upstream like trout. When thus discovered they were easily caught. Some appeared to be quite deep, 4" or more. Out of one bush we got 4 or 5 more than we saw take refuge there.

Noted a Cally 4 mi. E. of Midway Well.
1 Red Racer DOR M Meloland. Fields.
1 Small Gopher DOR 5 mi. E. of El Centro. Fields.
1 Red Racer DOR L 4 mi. E. of El Centro. Fields.
1 Gopher DOR M 3 mi. W. of El Centro. Fields.
(Continued on May 30)

MONDAY, JUNE 5, 1933✓

156th
Day

St. Boniface

209 Days
to come

Went to Chula Vista today on business. 10 miles. Nothing seen.

Major Grant called today. He had already collected on the San Diego River Camp 5 mi E of El Capitan Dam 3 *R. lecontei*, 1 *M. lateralis* and 1 *L. californiae*. Also *S. o. bisetatus*. These specimens were seen. Gave him jars etc.

Packed specimens tonight and made call.

Got 5 live snakes and 1 dead rattles today from the Melinjs today - included 1 *L. zonata* from San Pedro Martir's *L. agalma*.

TUESDAY, JUNE 6, 1933 ✓

157th
Day

208 Days
to come

Went to El Cajon Rotary Club this noon. A cold, overcast day. 30 miles 1 gopher L DOR gophermount. Grass.

Tonight put specimens away.

(June 11 Cont)

He had very little pain. Some paralysis of the facial muscles and lips. He was cool and collected. Little swelling except in the fingers.

The rattler which bit him was a small one. He noticed it had some kick in it after the first shot and shot it again. Then he put the gun barrel on its head and started to pick it up. The gun barrel slipped off and the snake snagged him in the index finger with one fang. He jerked quickly away so that he got but little venom. He called to his nephew who was nearby and they cut the wound with a pen knife and got a tourniquet on the lower arm. Then he walked back to the camp.

I gave him 9 cc of antivenin in the back. The tourniquet was loosened from time to time as we packed.

We were ready to start at 11¹⁰.

(Continued on May 29th)

WEDNESDAY, JUNE 7, 1933

158th
Day

207 Days
to come

To dinner with the Cothrells at
Fort Rosecrans and then talked
on snakes to the second Conservation
Company (mostly Imperial Valley)
(June 10th Cont)

Have to use glasses of two strengths
much more than formerly to see specimens.

In the evening after an early supper with
Gander and Cote drove about 3 miles up
the road but got nothing but one frog.
This was a disappointment as the weather
seemed ideal for evening hunting. The
Bancrofts passed us, coming in.

The total snake bag for the day was
5 oregans, 1 mitch, 1 gopher, 1 banded racer,
5 garters. One of the latter was seen
trying to swallow a small perch.

Pickled all specimens and turned in
at 9; very tired.

THURSDAY, JUNE 8, 1933~

159th
Day

206 Days
to come

The Valero III returned today from Guadalupe Island. Got a few Lizards from Asuncion and the San Benitos. They did not stop at Cedros.

(June 9th Cont)

just before reaching the Steam Shovel. However, little time was wasted as the other cars took the wrong road and we met them just as they got back to the main road.

The road was very rough, worse than on the previous trip as a truck had torn it up in wet weather.

We reached the lake at 11²⁰. It was quite cold. A few Hylas were heard.

No snakes were seen but none could be expected as we were closely following the other cars. There was much dust.

The m^cIntyre car was missing; probably took a wrong turn.

Had a midnight supper of beans and brown bread. Turned in at 1 A.M.

Miles to Tecate 44; Highway turnoff (near Zacutosa) 75, Steam Shovel 87.4; total to lakes 113.2.

FRIDAY, JUNE 9, 1933

160th
Day

205 Days
to come

Started for Laguna Hansen at 5⁰⁵ P.M. having been delayed by a business conference. Had expected to start at 5²⁰. Picked up Gander at 5²⁰ and then went out via Broadway extension. A clear cool afternoon.

Got a large box crossing the road at Tamacha at 5³⁰; brush.

Because of the delay and the probability that we would not be able to get across the line, we travelled too fast to be sure that no dead snakes were missed. Saw one on Potrero grade but did not stop. Other members of the party got a juvenile red rattler on this grade which I saw later but it was too far gone to save.

Met a Federal officer on the grade who said they would let us through, and we got through OK at 6³⁵. The rest of the party were waiting here: Messrs. Cota, Ted Myers, Walter Cannon, Histon, Golden, Capwell and two McIntyres. We had little difficulty passing the Mexicans as the cards with tire numbers were all made out, but the guns had to be checked.

We had a puncture from a large nail
(Continued on June 18th)

SATURDAY, JUNE 10, 1933 ✓

161st
Day

204 Days
to come

Up at 6¹⁵ this morning; clear and cold.

After breakfast I hunted along the north shore of the larger lake working eastward. Worked hard for Xantusia henshawi but got only one, in spite of the fact that many likely looking flakes were found.

The McIntyre party arrived at about 9³⁰.

Collected a good many bryids. Eumeces was the only kind seen and not collected.

S.g. vanderburghi was observed on both logs and rocks. Helped Gander collect a large oreganus along the base of a log. Some of the party got several Uta microscutata on the rocks above the cabin.

It was cool in the shade, but quite warm in the sun.

In the afternoon went eastward about a mile and hunted along a creek. Got a few full grown Hylas and many small toads and tadpoles which were preserved in Formalin. Lost my glasses once and had to retrace my steps for a long ways, but fortunately found them in the creek.

(Continued on June 7th)

SUNDAY, JUNE 11, 1933~

162nd
Day

St. Barnabas
Trinity Sunday—(St. Rita)

203 Days
to come

Woke up this morning at 5, and got started hunting at 7³⁰ working westward along the south side of the smaller lake toward the Bancroft camp. Met the elder McIntyre who gave me a large oreganus he had shot.

Met Griff and walked back to his camp with him. Borrowed some shells as we were beginning to run short; I had brought only 700.

Griff and I started back to the cabins as Gander was to show him some nests he had found on the previous day.

When we were north of the small lake we heard some one calling and ran back to meet Tony Green who reported that the elder McIntyre had been bitten by a rattler and they wanted me to check on the treatment. We hurried toward the camp and were met at the road by young McIntyre in his car.

We found every one in the camp including Margaret and 4 men from the Cattle Co. We found McIntyre lying on a cot with Cota and Myers applying suction to his finger with a Bullard suction pump. There was a tourniquet on the upper arm
(Continued on June 6th)

MONDAY, JUNE 12, 1933

163rd
Day

202 Days
to come

Dr. Crabtree called this morning to say he had given McIntyre 10cc of antivanin last night, 5cc intravenously, 5cc near the seat of the kite. The patient suffered somewhat up to 10 o'clock from serum sickness (chills and fever). Had a nurse present last night. This morning there was still considerable swelling but otherwise the patient seemed improved. There were several blebs near the kite which he opened.

Not feeling well tonight; did some filing.

TUESDAY, JUNE 13, 1933

164th
Day

St. Anthony

201 Days
to come

Recd today from gander a large ring-neck taken at Julian in a mahure pile May 24.

Not feeling well tonight - only a little miscellaneous filing done.

Chula Vista on business; 15 miles; nothing seen.

WEDNESDAY, JUNE 14, 1933 v

165th
Day

Flag Day

200 Days
to come

Went to La Jolla on business.
30 miles. Nothing seen.

Read today from Tennant Brooks
from Pine Valley 1 large Oreganus,
1 large ruler, 1 large mitch, 1 large
gopher, 1 large boa. All taken at Kitchen
Creek, except mitch from Vallecito; got here
left for Los Angeles with Mr.
Reber at 7 P.M. this evening.
County list forwarded to La Jolla today.

THURSDAY, JUNE 15, 1933~

166th
Day

Corpus Christi

199 Days
to come

Returned from Los Angeles
this evening

(July 4th) Continued)

fangs unquestionably discharged venom. They were separated by a card and the blobs were seen to appear by different observers at the discharge lumens.

Mitchellii from the Cape Region continued in this large series to have a distinctly smaller head and smaller venom yield than the S.P.Co specimens. The venom is clear and yellow. It has a white precipitate when mixed with tap water, probably a/c of the chlorine. This was not shown by the other venoms and should be followed up. These mitchellii were very violent and hard to handle compared with the lucasensis notwithstanding their small size.

The enys give a somewhat cloudy yellow venom. They are easier to handle than the mitchellii. Venom is small in quantity. The sides of the head feel very rough compared with the other species.

One enys gave birth to about 7 young prematurely tonight. The patterns are clear but the scales could only be counted with difficulty especially on the head.

FRIDAY, JUNE 16, 1933

167th
Day

198 Days
to come

Today took a rifle and a gal. of formalin to G. Bancroft Jr. who is going down to Laguna Hansen over the weekend.

Also loaned a box with a doz $\frac{1}{2}$ gal. jars and a Winchester single shot rifle to Huey who is going to the White Mts in Ariz. for 6 weeks, with Sam Harter and two boys.

Went to a movie this evening.

SATURDAY, JUNE 17, 1933

168th
Day

Bunker Hill Day—(Boston)

197 Days
to come

Spent all day tagging specimens and putting them away.

In the afternoon milked 16 rattlers at the Zoo and in the basement.

Heard from Chapman Grant this afternoon. He is catching many snakes of which I hope to secure a list later. Saw S. humilis ~~et~~ and T. eisenii crawling above ground in the dark of the early evening. Had a horned toad lay eggs today.

Gopher snakes mated at the Zoo today.

Saw Tennent Brooks at the Nat. Hist. Soc.

SUNDAY, JUNE 18, 1933 ✓

169th
Day

196 Day
to come

Spent the entire day preserving specimens and other work on the collection. No time wasted.

Tried a black rattler from ~~Pan Ped~~ Laguna Hansen in the sun. It changed color slightly if at all.

Tried a Cal. King in a sack and then a cage with a hutch from Arizona and the above Oregans. The hutch was much excited and assumed the usual arched pose. The black was wary but calm.

MONDAY, JUNE 19, 1933

170th
Day

195 Days
to come

Redd today from Carrell a
large Boyles King from Santa Fe
Ranch

No work tonight. Company
and too tired.

Today went to El Cajon Rotary Club for lunch, then to the CCC camp above El Capitan Dam to see Major Grant who unfortunately was not home. The camp is 9 miles up the river from the County Park at El Monte Oaks.

1 Garter S. DOR Grass Chollas Hts.

1 Boyles K L DOR Grass Grossmont.

1 Cal King L DOR Brush El Cajon.

1 Long nose L DOR Brush Bostonia

1 Cal King L DOR Grass Chollas Hts.

Although Major Grant was not home I saw his specimens, all collected in the immediate vicinity and within the last 2 weeks. These included the following:

1 Pac. Rat, 2 Red Rats, 1 Mitch, 4 Worms, 1 Tardigrade, 1 Boa, 3 Boyles, 5 Red Rats, 6 Long Nose, 3 Banded Rats, 1 Cal King, 1 Garter, 1 Patch nose, 5 gophers, 1 Spotted kite.

Reptiles and amphibians: Orcuttii, SOB, Uta, Alligator, Whips, Verticariae, Horned Toad, Silvery Footless, Skinks, Arenicolor, Californicus, Triturus.

The camp is located at the upper end of the Capitan Grande Indian Reservation at what is called El Capitan on the Geol. map (a long way from the site of Capitan Dam).

6 miles

WEDNESDAY, JUNE 21, 1933✓

172nd
Day

St. Aloysius

193 Days
to come

Huey started for the White Mountains today.

Milked a few rattlers this evening and cleared up specimens preparatory to a San Francisco trip.

Philip went to Cuyamaca today. Got 1 large gopher alive at Ballena and saw dead specimens at Flinn Springs and Ramona.

Concolor gave .07 cc. of venom — not saved.

THURSDAY, JUNE 22, 1933✓

173rd
Day

First Day of Summer
Longest Day of Year

192 Days
to come

Started for San Francisco this
noon on business.

Artran in a letter dated June 21
gives the following locality records:
27 miles west of Indio at 4200 ft on
the Palma to Pine's Highway: *Oreganus*,
mitchellii, *Hypsoglena*, *Salvadora*, *P.c.*
Annectens, *P.b. blainvillii*.

42 mi. ditto at 6000 ft.: *P.b. blainvillii*
Sand Dunes 4 mi. W. of Indian Wells:
Cerastes, *Uma*

Hidden Springs Canyon: *Sauromalus*
Mecca: *Cerastes*, *P.c. deserticola*,
a.e. occidentalis, *L.g. boylii*.

Murphy Canyon (off Palm Canyon):
Mitchellii, *Sauromalus*, *T.o. hammondi*

Huey finally started for Arizona
today.

FRIDAY, JUNE 23, 1933

174th
Day

191 Days
to come

Arrived in San Francisco at 8¹⁵.
Spent the morning with Chickering.
Lunched with Paul. Met Slevin at
the Palace at 1¹⁵ and talked publications
and other matters. Then to interview
Huber at 2³⁰. Back to Chickering's
office at 4²⁰ and caught the 4⁴⁰
boat for Piedmont. Had borrowed
4 small sacks and a pair of forceps
from Slevin.

(June 24th Continued)

They are particularly available in still
water, rocky pools. They are easy to
get with a forceps. Got one skelly
in the rocks.

The station is 143 mi. from Piedmont
the way we came; the house 10 mi. on the
side road.

Saw a large turtle at Arthur Lake
on the way up.

In the evening went out and hunted toads
from 8³⁰ to 9 around the house, the meadow
and the small branch creek, but saw
nothing. Also tried for salamanders where
the lawn was being irrigated at the foot of
the trees. No frogs were heard but the
falls (of the north fork of the American River)
make much noise.

Started for Summit Soda Springs this morning at 6⁵⁵. Cool and foggy. Went out via Bryant, Lafayette, Walnut Creek, Antioch and the River Road to Sacramento. Then via Highway U.S. 40 to Soda Springs station where we arrived at 12³⁰ and lunched at the hotel.

1 Gopher L DOR 5 mi. W. of Pittsburg. One or two others may have been seen before Antioch, but certainly there was nothing afterwards, as I was watching the road closely. Chattering drove all the way. Not a lizard was seen. It was comfortably warm all the way.

At the hotel we blew a hole in the exhaust pipe and left the Packard there and were brought in to the Soda Springs by a boy in a Buick. On the way 2 skellies were seen in the rocks near the Cedars; these were the only lizards seen on the trip.

After arrival at 2³⁰ we walked around and viewed the estate. Then hunted up creeks and around rocks, turning over logs and stones. Got a number of R. boylii, one or two in marshes, the others in the creeks. They dive to the bottom, or go to the other side as usual.

Summers
to

SUNDAY, JUNE 25, 1933

176th
Day

189 Days
to come

In the morning at 8³⁰ I walked down the road nearly to the Cedars. Here there are some fine granite rock slides with a south exposure and partial brush covering. Hooks fine for rattlers. It was somewhat overcast and windy. There were many skellies and a few graciosas. Secured about a dozen of the former with a thread loop on the end of a willow wand, and three of the latter. The elevation here is just about 6000 ft. The graciosas are distinctly more wary than the S.o. biseriatus. Could have got many more lizards with a ss. One biseriatus shot blood above the eyes when slightly squeezed by the thread loop. Got 2 more frogs. Back at the house at 12.

Started back for the station at 1⁰⁵ in the Ford Frank driving. Now part cloudy and cool. Arrived at 2¹⁰. Stopped for a few moments at the Ice Lakes and got a toad and 2 hylas. Also lost one tiny toad.

Returned to Piedmont where we arrived at 7³⁰ via Davis, Dixon, Vacaville and The Carquinez Bridge. 1 small gopher DO R 1 mi E of Newcastle.

Bob Knowles was bitten by a rattler at S. Coronado Island today; he put his hand under a ^{no ck} a

MONDAY JUNE 26, 1933

177th
Day

188 Days
to come

In San Francisco on business all day.

In talking reptiles with Chickering and Frank yesterday got the following information:

Rattles are found near the Cedars 5 miles west of Chickering's place. Saw the rattles. Rubber snakes are also found. One was found at Chickering's place under bark on a dead log. There is a striped garter snake which is probably elegans. There is also said to be another garter snake or water snake which is brown and blotched.

There is an alligator lizard and at least one kind of toad.

One rattles was seen just on the edge of a patch of snow about ten days ago; they have been out at least two weeks, maybe more.

TUESDAY, JUNE 27, 1933

178th
Day

187 Days
to come

Returned from San Francisco at noon today. Spent the evening catching up with miscellaneous work.

Sunday night Checkering gave me the following Oregonus locality records from his personal experience

Placer Co gorge of N. Fork of American River at Waukena
below the Cedars
Orion Creek at the road crossing
Serenio (Ice) lakes
The Cedars.

Tuolumne Lake Eleanor
Till-till Valley (Yosemite Natl Park)
Lake Vernon

Merced Co near Hatch-Hatchey Valley
On the way up to Clouds Rest (Yosemite)
Ridge on the South Side of Little Yosemite (8000 ft)

Fresno Co Horse Corral meadows (Millwood-Kings River road)
Daisy's meadows, north Fork Kings River

Contra Costa Co Marsh Creek near Mt. Diablo

Napa Co South end near Gordon Valley

Alameda Co Mission Peak

Berkeley Hills above Tunnel
Laundry Farm (back of Fruitvale)

Ventura Co Ojai

Sonoma Co Austin Creek 6 mi E of Cazadero
Oak Knoll Ranch on Dry Creek 6 mi. N of Napa

Trinity Co Trinity River 5 mi Upstream from Carville

Siskiyou Co Grader Creek 3 mi up from Confluence with
Klamath.

Shackelford Creek near Marble Mt.

Scott Valley near Fort Jones (Greenhorn Mt)

Mendocino Co Eden Valley Ranch (several points)

Talked to Perkins about Knowles kite.

McIntyre came in and we talked over his case. He thinks the second shot of antiemem was necessary. He had a considerable swelling for a week, and did not return to work until two weeks after the accident.

Tony Green and the Bancrofts returned from Laguna Hansen last night. Today he brought me 4 oreganus, a racer and 4 gophers.

Worked on miscellaneous checking and filing tonight.

Shasta Co. Bolli-boca Club. McCloud River about 20 mi N. of Baird.

Glenn Co. Stony Creek within a mile of Fount's Springs.

Orange Co. Claymore Canyon (off Santa Ana Canyon) Rubens.

THURSDAY, JUNE 29, 1933

180th
Day

St. Peter

185 Days
to come

Recd today from Miss. Meling
a red rattler from San Jose and
a gopher from Rosarita Beach.

From Bob Creelman a red rattler from
 $2\frac{1}{2}$ mi E of Barrett (June 20) and a
small garter from Boiling Springs, Laguna.
Also some pickled lizards.

Miss Meling told me of finding
(but losing) a ring neck at Buena
Vista 9 mi. NW of San Jose. Her
description made the identification
unmistakable..

FRIDAY, JUNE 30, 1933

181st
Day

St. Paul

184 Days
to come

Outfitted Cota with 4 Jars of formalin, tags, a gun and ammunition (200' shells)

Ralph Whitaker gave me the following definite locality records in Kern Co for Oreganus

Bakersfield

Paso Paso

Isabella

Summit 12 mi E of Glennville.

Philip returned from Cuyamaca
Killed a small Oreganus, saw a
garter and a Boyles King BOR
all at Cuyamaca.

Spent the day fixing specimens, pickling, tagging etc.

At 4¹⁵ this afternoon started for the desert via Lakeside, Ramona, Julian and the Narrows with the family and Harriett Crouse. A moderately cool afternoon in town; warm in the back country.

- 1 Gopher L DOR Witch Creek Grass
- 1 Gopher S DOR Wynola Fields
- 1 Coleonyx 1/2 mi W. of County Line. DOR.
- 1 Coleonyx Caught 1/2 mi E of County Line.
- 1 " " 3 " SE of Kane Spr.
- 1 Sidewinder M DOR 4 mi SE of Kane Spr.
- 1 S. episcopa run over on the road at 9³⁰ 1/2 mi. N. of El Centro.

Left El Centro at 9⁵⁰
 Red Rock 20 mi. N. of El Centro. No track on head. Fields

1 Sidewinder M Plaster City Desert

Reached home via the highway at 1¹⁵.

Total miles 256. Had some trouble with Brakes freezing. Had to stop twice.

The desert collecting was disappointing; temperature warm and weather fine.

May have missed some specimens alive or dead on the return trip from El Centro. Several good prospects were passed up - so late and tired. Miles in country outbound 94

SUNDAY, JULY 2, 1933

183rd
Day

Visitation B. V. M.

182 Days
to come

Worked hard all day pickling, tagging, milking, ratters etc. Also late into the evening.

A bunch of the Washington oreganas got so mangled up in a sack today that they had to be untangled by hand.

MONDAY, JULY 3, 1933 v

184th
Day

181 Days
to come

Today Fred Lewis in the yacht *Stranger* returned from Cedros, Cape San Lucas and Guayamas. Snakes were secured only from Cape San Lucas. Although Capt. Lewis left word at Cedros on the southbound trip that he would buy up to 100 snakes and horned toads none were forthcoming on the return.

But at Cape San Lucas he was more successful and bought about 270 snakes of which about 220 were rattlers. Of the harmless snakes most were red racers in the usual gray and yellow colorations but there were 4 gopher snakes, 2 boas, 1 constrictor, 2 patch-noses. The rattlers were largely *lucasensis* but there are a few mitchells and still fewer ~~to~~ *enyo*. A good many are quite thin; they piled up in a corner of the large cage today and suffocated 7, 5 *lucasensis* and 2 mitchells.

I secured the remains of the first trip of *lucasensis* and racers, except 4 *luca*. which are feeders.

Tonight pickled the 7 specimens which died.

Met Capt. Lewis for a few minutes at 9 AM when they docked; he left promptly for the north.

TUESDAY, JULY 4, 1933

185th
Day

Independence Day
Calvin Coolidge—Born 1872

180 Days
to come

Spent the entire day milking rattlers from 7 A.M. to 6 P.M. these being the snakes of the Lewis collection brought in yesterday. In this series there were the following.

<u>lucasensis</u>	<u>mittchellii</u>	<u>Enyo</u>	
184	39	10	not milked.
6	3		<u>Dead</u> just
178	36	10	milked.

Thus the total number of snakes milked today was 224 and the amount of venom secured far exceeded any other yield because of the relatively large amount from the lucasensis.

lucasensis is a quiet snake much like ruler - quite different from atrox. It is easy to catch and hold and does not fight. The venom yield is relatively large. In nine juveniles the venom was clear and colorless; in the adults it was yellow and decidedly cloudy. Most of these specimens seemed to have fairly full glands. A few only had bad fangs. We carefully tested several with double fangs - either with two solidly fixed or with one very slightly movable and in several cases both

(Continued on June 15th)

WEDNESDAY, JULY 5, 1933~

186th
Day

179 Days
to come

Recd from young Keith a large
Mitchellii from Wildwood.

Instructed Philip in pickling today,
and some got done.

It is noted that *enyo* has a
peculiar resting coil, a close
bunched two story affair instead
of flat like a pancake.

THURSDAY, JULY 6, 1933✓

187th
Day

178 Days
to come

Philip with my help pickled 28
Pateros oreganus today.

Tonight we milked 21 lucasensis
of the first lot. — second milking
for these. The first milking was
April 30. There were then 37.

FRIDAY, JULY 7, 1933✓

188th
Day

177 Days
to come

Philip pickled snakes today.
Nothing done tonight - company.

SATURDAY, JULY 8, 1933✓

189th
Day

176 Days
to come

Pickled and tagged rattlers from
7 AM to 5 P.M. Out to dinner tonight.

SUNDAY, JULY 9, 1933

190th
Day

175 Days
to come

Spent the entire day, part time with Philip's help, pickling snakes. A tough job. Caught up on the *lucasensis* at least.

Milked a few snakes tonight.

David R. says he got the following snakes on the narrows - Kane Spring's Road late in June

- 1 Sidewinder 5 to 6 mi E of the Narrows
- 4 Shovel-noses both sides of Dry-lake.
- 2 head-noses near Dry-lake.
- 1 Long-nose 5 to 6 mi E of the Narrows.

MONDAY, JULY 10, 1933 v

191st
Day

174 Days
to come

Spent the evening making labels and pasting them on bottles. Got up to date on this.

Recd from Chapman grant
✓ Col. King's and a box L from
El Capitan Camp.

Recd from Voorhies, Tucson,
4 snakes, 3 molossus and 1 scute.

TUESDAY, JULY 11, 1933~

192nd
Day

173 Days
to come

Recd today from Gander a
leaf-nose taken beyond the Narrows.
Full data later.

Woodall writes he collected a
Trimorphodon in Black Star Canyon
6 mi E. and slightly south of Irvine
Park, Orange Co. Brush and rocks.

Milked 4 rattlers tonight.

WEDNESDAY, JULY 12, 1933

193rd
Day

Orangemen's Day

172 Days
to come

Recd today from Gloyd 62
confluentus from South Dakota in
very bad condition. Raised only 5
out of the lot.

Started for Torrance and Los
Angeles with the family at 12¹⁵.
I mixed King under the cliff at the
south end of Doheny Palisades.
A clear cool day. Otherwise
nothing seen in 136 miles; 54
miles in the county.

Caught the back for San Francisco

THURSDAY, JULY 13, 1933✓

194th
Day

171 Days
to come

Spent the day on business in San Francisco. Saw Levin from 4³⁰ to 6 P.M. and discussed the proposed handbook.

July 14th Cont.

Returned to San Diego, starting at about 2³⁰. One large Boyles King; DOR grass at Dana Point. Nothing else seen. Dark at County line so cannot count this. Reached home at 8³⁰. Via Conejo's grade and Hollywood, Long Beach and the Coast. 212 miles; 54 in the County.

FRIDAY, JULY 14, 1933

195th
Day

170 Days
to come

Arrived at Santa Barbara on the Lark at 555.

Started out for the San Marcos Pass and Grade at 8 AM. A somewhat foggy, cool day. First hunted just beyond the Summit of San Marcos Pass and collected a few lizards. There are many great boulders of sand stone but they do not flake well. A few flakes were found but they proved barren. The brush is very thick. Then went down the grade to a point 10 mi. beyond the summit. Here there was a small creek flowing into the Santa Ynez. The San Marcos is fenced so it is difficult to get to the ruin itself. We collected *Hylas*, *Ranas* and a *Triturus*.

Returning we hunted again just west of the summit in some very large sandstone boulders. Only a few lizards. Total miles for the morning trip 50.

Visited the Santa Barbara Natural History Museum and called on Mr. Rogers. They have one small reptile group but no preserved collection. Hope to have one some day.
(Continued at left).

SATURDAY, JULY 15, 1933✓

196th
Day

Pioneer's Day—(Idaho)
St. Swithen

169 Days
to come

Worked hard all day on the collection
Major Grant and wife at dinner
tonight. Talked papers and projects.
Artran and Perkins called late
tonight. Gave me a number of good
specimens. I gave them a large
Mitch (Keith's) and 2 Cal. Kings
and a boar (grants).

SUNDAY, JULY 16, 1933

197th
Day

Our Lady of Mt. Carmel

168 Days
to come

Picked snakes all day. Milked
a lot of seconds.

- Locality records from Artran and Perkins
not represented by specimens left with me
- P. b. blainvillii Hemet Valley (E. of Lake Hemet).
Pinjon Flat
- P. c. annectens Vanderventer Flat
3 mi. E. of Perris
Hemet Valley (E. of Lake Hemet).
- C. c. oregonus Sugar loaf (Pinjon Flat).
- S. obesus (Hidden Springs Canyon (near Mecca)
Murray Canyon (S. of Palm Springs)
- G. s. webbi Asbestos Spring
- C. c. mitchellii Vanderventer Flat
Murray Canyon (S. of Palm Springs).
Pinjon Flat.
- M. lateralis Vanderventer Flat
- C. cerastes 4 mi. W. of Indian Wells
Palm Springs
- P. c. deserticola Mecca
- L. g. boylii Mecca (1 in date garden; 1 under board. Both in irrigated section)
- D. d. densalis Mecca.

MONDAY, JULY 17, 1933

198th
Day

167 Days
to come

Tagged specimens tonight.

notes from Artran-Perkins 3^d trip.
Recd these notes Aug 23^d.

July 16 Gopher (checked by Ink) DO R.

Witch Creek

Gopher (checked) DO R. ^{Wynola} ~~Sutherland~~.

Worm Snake (checked) DO R. Sutherland

Skink Bentenac

July 17 Red Racer (checked) DO R. Bentenac

Dips Grays Well (checked).

Sonora (?) 10 mi. E. of Gila Bend

crossing parment at 10 P.M.

Sidewinder, Summerland, 26"

crossing road at midnight.

Arizona elegans. 6 mi. W. of Casa Grande

and Casa Grande. Midnight.

Bufo alvarius under street lights
at Casa Grande.

July 19

Gopher Snake (checked) Ft Huachuca

(Here omit discussion of Lepidus,
Molossus and misc material collected
in Ramsey canyon as no part constitutes
usable locality records.)

July 26 Patch-nose. Ramsey Canyon 4000 ft.

29 Scute (checked) 1 mi. S. of Tucson

30 Patchnose Youtz Canyon (3.5 mi. NE of
Collais Tucson on road to Redington)

reberkus (checked) "

(Continued on July 18)

TUESDAY, JULY 18, 1933

199th
Day

166 Days
to come

Spent the evening in preparing room
for shipment to Milford.

Went to the El Cajon Rotary Club
this noon. 28 miles.

1 Red Race, L DOR Chollas Mts grass

1 Cal Kern, L DOR Fletcher Hills grass.

(July 17 Cont)

[Redding Road]

aug 1 Atrox 18 mi. E y Tucson toward Youta
2 Scute } second chasing post.
Sonoran Race. } Tucson Recreational area
11 mi. W. y Tucson.
Western 1/2 y Tucson mts.
Scute donated by Hale. Stoval.

5 Leopard Gray's well.

Boyles DOR 2 mi. W. y Mecca Checker

8 Mitch Nightingale's Ranch, Riv. Co
Oregonus. "

WEDNESDAY, JULY 19, 1933

200th
Day

St. Vincent de Paul

165 Days
to come

Recd today from Baer, trouble
man, a large Boyle's King from
La Mesa.

Phil picked 20 rattlers today.
 A little miscellaneous work tonight.
 Started tabulating the 1933 field trips.

(July 23^d Continued)

This was at 7¹⁵.

1 *Phyllorhynchus* L caught crossing the
 pavement at 8⁴⁰ 4 mi. E. of The Narrows.
 Desert.

1 *Coleonyx* caught 4 mi. E. of The Narrows.

1 *Phyllorhynchus* M caught crossing the
 pavement 6 mi. E. of The Narrows.

1 *Phyllorhynchus* M caught crossing the
 pavement 7 mi. E. of The Narrows.

Ran over this one in backing up.

Started for home at 9⁵⁰ from the Narrows.

Arenicolor were heard in Sentinel
 Canyon and San Felipe.

Home at 12³⁵. Miles 211 all
 in the County; Count 130 as far
 for snake hunting.

FRIDAY, JULY 21, 1933

202nd
Day

163 Days
to come

Phyllorhynchus record from
Bogert 7 mi. W. of Oatman.

Young Perkins told me today of
a large California racer eating an
alligator lizard.

Open the evening on the trip record.

Alvin telephoned from Los Angeles
he would not be down today as
scheduled.

SATURDAY, JULY 22, 1933v

203rd
Day

St. Mary Magdalene

162 Days
to come

Recd today from Chapman Grant
a large gopher snake.

Worked all day on the Field Trip
record and brought it down to
this point.

Tonight finished the San Diego County
statistics up to June 14. Not entered by
Zoo beyond this.

Slewin arrived on the evening train.

Pickled snakes this morning and milked 24. Spent the early afternoon with Slevin.

At 4 P.M. started for the desert with Slevin, Perkins and Phil. Went out via Fletcher's Hills, Lakeside, Ramona, Julian, The Narrows and to the County line near Dry Lake. It was cool in town, moderately warm in the back country and hot on the desert. Was over 100 in spots at 10 P.M. when we started for home.

1 *Salvadora* M DOR Sutherland Brush.

Onychomys observed at Sutherland, Utas and Skellies at 6⁴⁵ active at Pentenac Canyon Bridge (97°); *C. c. baileyi* and *Callos* active at 7 P.M. (dusk) at Yuguu Well.

Picked up a red racer 1½ mi. beyond the Narrows. Not quite dark. He was crossing the pavement Desert.

Went out to the County line and back to the West end of the pavement twice, traveling quite slow part of the time to see what was on the berm. Perkins and Phil tried walking for awhile without success.

1 *Bideuindel* M (on the berm) 3 mi. W. of County
(Continued on July 20)

MONDAY, JULY 24, 1933

205th
Day

Pioneer's Day—(Utah)

160 Days
to come

Recd the new S & B Check list
this morning. The certainly made
hash of the rattlers.

Worked on specimens this evening.
Messrs. Higgins and Chase
called.

TUESDAY, JULY 25, 1933✓

206th
Day

St. James

159 Days
to come

Too tired to do much work
this evening. A hot day - the
first of the year.

Pickled 5 rattlers.

Gander got a worm snake from
Ramona

WEDNESDAY, JULY 26, 1933✓

207th
Day

St. Anne

158 Days
to come

Harey returned from the White Mountains today. Had a few specimens.

Tonight went out to the CCC camp at Green Valley and talked snakes. With Alvin and Philip. Started at 6 P.M.; returned at 10⁵⁰. A hot pretty evening. 96 miles; count 48 miles in daylight. The boys at the camp gave me a large Boyles King collected in Green Valley. Took the new alpine grade coming back - not yet officially opened.

1 Arizona DOR Lakeview Grass
Just killed at 6⁴⁰ - a fine spec.

2 Boyles King DOR Flinn Springs Grass.

Bufo californicus heard at Descanso
Hyla regilla heard at Green Valley
and Descanso

Hyla arenicolor heard at Viejas

THURSDAY, JULY 27, 1933

208th
Day

157 Days
to come

Recd today from Gander

Boyles King L 7-2-33 near Murray Dam FF-Gander
Cal. King M 7-19-33 3mi. S. of Ramona "
Pac. Rattles M 7-20-33 1mi. W. of Murray Dam, Anita Grove

Phil picked 13 lucasensis today.

FRIDAY, JULY 28, 1933

209th
Day

Beginning of European War—1914

156 Days
to come

Clerical work tonight. Milked 16
fucasensis and put them on to
fry.

(July 29th Cont.)

This latter very peculiar.

Total miles my car 535; Phil 206.

Mine all in the county except 24.

Count in Snake Score 131 of mine
+ 48 of Phil = 179.

SATURDAY, JULY 29, 1933^v

210th
Day

155 Days
to come

This morning pickled 16 *lucasensis* and did other miscellaneous.

This afternoon at 4¹⁵ with Chapman Grant, Edwin Perkins and Phil started for the Narrows. Took Phil's car also and Perkins and Phil hunted separately from the rest of us after we ate supper at Banner. It was warm and sultry in town; hot in the back country, and in the desert.

Got to the Narrows at 7²⁵ and made one trip to the County line and a second to the Kane Springs junction. Phil made 2 trips over the pavement to the County line. There was a mild wind and half a moon. The latter may have been the cause of the poor luck. Left the Narrows on the return trip and reached home at 1¹⁰ AM.

Trimerophodon DOR at Foster. Fields. M. this was well away from any rocks.

Horned Toad DOR at Fetherland.

Callisps DOR 1 and 2 mi. beyond the Col. line.

Phil. got a red cerastes 6 mi. E of the Narrows; a coleonyx 5 mi E of the Narrows and a dip. at 9⁰⁵ 5¹/₂ mi. E of the Narrows
(Continued on July 28th)

SUNDAY, JULY 30, 1933

211th
Day

154 Days
to come

Spent most of the day making
rattle sheets for entering data.

Plurin was up this afternoon.
He leaves tomorrow morning.

list of snakes taken on three trips
by Gardner's boys.

July 8 2 Banded geckos 5 mi. E of narrows.
1 Desert Gopher 7 " " " 8 P.M.
5 hours Calif leaf-nose.

1 mi. from SD Co line at	8 <u>15</u>
1 " " " " "	8 <u>39</u>
1 " " " " "	8 <u>58</u>

near Dry-Lake Store (2).

1 Red Butte $\frac{1}{2}$ mi. W. of The Narrows

July 15 2 hours Cal. leaf nose.

July 22 1 leaf nose 2 mi. W of border at 10 P.M.

7 " 7 mi. W of border (DOR).

1 " 12 " W of border at 10 ⁴⁰

(given to me)

MONDAY, JULY 31, 1933

212th
Day

St. Ignatus, Loyola

153 Days
to come

Started for Los Angeles this morning at 6⁴⁰; arrived at 9⁵⁰.

An overcast day.

- 1 Boyles King Small DOR Rose Canyon grass ^{fresh.}
 - 1 Cal King " " " Grass
 - 1 Western Yellow Med DOR " Grass
 - 1 Boyles King L DOR La Costa grass.
 - 1 Longnose M DOR Oceanside Grass.
 - 1 Boyles King M. DOR Stuart Grass
 - 1 Banded Racer L DOR Las Flores Grass
 - 1 Boyles King M DOR " grass
- County line 54

- 1 Boyles King L DOR San Clemente ^{fresh} Grass

After business in the afternoon went to the LA Museum and saw Hill. Checked material received since the last visit; there was not much. #764 a large Eumeces from Nevada was of interest. Had a blue tail. Then counted a few rattlers.

Went to Allmans snake pit in Long Beach. Met Hiltman and several others. Heard Tex is going on the road again. Saw some rather pinkish atrox and a scute which was quite dark and with non-typical scales between the supraoculars — but the tail stripes were OK. Reached S.D. at 9⁴⁰ P.M. Total miles.

TUESDAY, AUGUST 1, 1933

213th
Day

152 Days
to come

Recd today from Chapman
Grant a large Boyle's King
and a large Mitch from El Capitan
CCC Camp.

Worked this evening on the
rattles sheets.

Recd from Paul (unfortunately
dead) 3 *Rana boylei sierrae* from
Chathedral Lake (lower slope of Teller)
8000 ft.

WEDNESDAY, AUGUST 2, 1933

214th
Day

151 Days
to come

Miscellaneous work tonight.

THURSDAY, AUGUST 3, 1933

215th
Day

150 Days
to come

Went to Los Angeles with Mr. Ruler today. Started at 6⁴⁰ returned at 6 P.M.

Recd today from Chapman grant a large gopher from El Capitan.

FRIDAY, AUGUST 4, 1933~

216th
Day

149 Days
to come

Too tired to do anything tonight.

locality records rec'd from Cook

His trip of 5-26 to 5-28 - 33
D.O.A. series

Red racer San Bernardino

Band of racer 13 mi. NW of San Berdo = Cozy Dell

P. platyrhinos 9 mi. S. of Victorville = Miller's Corner

L.v. gracia 4 mi. N. of Victorville = Oro Grande

Red racer $4\frac{1}{2}$ mi. N. of Victorville = Oro Grande

Gopher 8 mi. N. of Victorville = Bryman

Sidewinder 15 mi. N. of Victorville = Helendale

Leopard hybrid 8 mi. E. of Helendale = Hodge

Gopher (?) = 13 mi. S. of Barstow = Stoddard Well

Sidewinder. 2 mi. N. of Stoddard Well

Red Racer 8 mi. E. of Etiwanda = San Berdo

Long nose 4 mi. E. of Etiwanda = Etiwanda

Live Series

Red Racer 14 mi N of Victorville = Helendale

Tortoise Stoddard Well

Cnemid Sidewinder Well

Xantusia virgata "

Platyrrhinos "

Chucks 5 mi SW of Sidewinder Well
= Victorville.

The boa had very distinct red
stripes. 41 scale rows

SATURDAY, AUGUST 5, 1933~

217th
Day

148 Days
to come

Recd today a patchnose
from Chapman Grant.

Cook called this afternoon.
Bought from him 23 assorted
lizards for \$1.00. Offered him at
least 5 days work at 30 cents
an hour.

M. Stewart called this afternoon
Arranged with him for the
construction of the new shelves.

Worked all day milking,
pickling and putting specimens
away. Got a fair amount
done.

SUNDAY, AUGUST 6, 1933 \

218th
Day

Transfiguration

147 Days
to come

Pickled specimens and
other miscellaneous work today.

MONDAY, AUGUST 7, 1933

219th
Day

146 Days
to come

Miscellaneous filing until 10 P.M. tonight.

Gander told me of a patchnose
DOR in Mahogany Canyon

TUESDAY, AUGUST 8, 1933

220th
Day

145 Days
to come

El Cajon Rotary Club this noon.
30 miles. Cool day. 1 Boa L DOR
Fletcher Hills

Gander brought his group
of boys to see the collection
tonight. They stayed about an
hour.

(Aug 19 Cont. from Aug 9)
Lake (back of Laguna Beach)

They told me lizards will eat insects.
One lizard went down a hole, was bitten
by a sidewinder and died soon after.

There was a spotted deserticola from near Mexico
Caught the Oakland hawk.

Lates. Arian advised that all
babies had shed - presumably Sunday
or Monday. Molossus ate baby rats.
Large mice and oreganus ate kittens.
Baby lepidus were born Aug. 6;
molossus Aug. 7.

WEDNESDAY, AUGUST 9, 1933

221st
Day

144 Days
to come

Stewart started on the new shelves today.

(August 19th Cent)

Noted that only 1 of the molossus had made its first skin change; the other 4 still had pre buttons. One of these started to change after I measured it. The skins on these (especially the lepidus) were patchy, probably because of the trip across the desert. It will hardly do to take these as a criterion of the length of time between birth and changing. Will get dates of birth later.

Ran 2 oreganus from Arizona, 1 black and 1 brown speckled; localities later. There were 2 Boyles Kings - brown with narrow light brown rings. Said to be from the vicinity of Laguna Beach. Another dark brown with much white came from Mecca. There was a large semilineatus 67" long. Saw a small Rana (a. draytoni?) eat a small Hyla. Took one Rana to check; they are said to be quite common in Aliso creek.

Besides the pickled material they gave me a banded racer from Laguna
(Continued on Aug 8)

THURSDAY, AUGUST 10, 1933✓

222nd
Day

President Hoover—Born 1874

143 Days
to come

Spent the evening putting away specimens.

The new jais arrived today; all except the $\frac{1}{2}$ gals

FRIDAY, AUGUST 11, 1933

223rd
Day

142 Days
to come

Movie tonight

John Kellogg of Chicago
called on me today.

SATURDAY, AUGUST 12, 1933

224th
Day

141 Days
to come

New shelves are finished except for exterior painting.

Cook started on clean-up work today.

Got today from young Ay the following records from his recent trip.

1 Rubber, San Felipe Valley M. ^{gave this} ~~to me.~~

1 Sidewinder

1 Gecko

1 Leaf nose (DOR)

The last three are in the Borego area; exact localities not figured.

Worked most of the day labelling jars.

Went to a movie tonight with (Stell and the Chapman Grants.

Gardner brought 3 San Diego Co snakes to night to preserve for the museum; a shovel nose, a leaf nose and a small garter. Data later. (See Aug 15)

SUNDAY, AUGUST 13, 1933 ✓

225th
Day

140 Days
to come

Spent the entire day working hard
pickling specimens, counting scales
and labelling bottles.

Cook also worked long hours.

Counted scales tonight.

Cook worked long hours today

Stewart painted around sink in
the basement.

Data on Gander's trip to the desert (with David Regnery and William Derbonne) Aug 15, 1933. A cool dark night. Unfortunately, they were not in the best section (Co. line to the Narrows) at the proper time (8 to midnight). This was the same night Perkins had such good luck.

- 1 Sidewinder alive - County line
- 1 Cally 7 mi. W. of Kane Spr.
- 1 Coleonyx 4 mi. W. of Kane Spr.
- 1 Gopher DoR 6 mi. W. of Westmoreland
5 mi. later lost a live snake on road.
- 1 Cally (alive) at 11⁴⁰ temp 89° 3 mi. W
of Kane Spr. Junct.
- 1 Coleonyx 9 mi. W. of Kane Spr.
- 1 Cally (alive) at 1¹⁵ AM temp 90° 5 mi. W
of County line
- 1 Ring-neck 400 mm. Julian
- 1 Striped Racer (lost). Julian.

TUESDAY, AUGUST 15, 1933 ✓

227th
Day

Panama Canal Opened 1914
Assumption B. V. M.

138 Days
to come

Cook left this noon. As of this date there are only 42 rattlers to count.

Spent the evening fixing lights etc in the basement; also getting together MVZ material for a days checking in Berkeley.

Data from Gardner:

live leaf-nose Aug 7 2 mi. E of
Hannons. Morris Bloomfield. Given
me today.

Dead leaf-nose Aug 9 Same place.

" Shore-nose " " "

Garter snake. Aug 10 Banner.
(lost 3 by Philip Lichty).

WEDNESDAY, AUGUST 16, 1933~

228th
Day

Bennington Battle Day—(Vermont)

137 Days
to come

Meeting of Community Chest
Budget Committee tonight.

Woodall writes he collected
Donora occipitalis and *Rhinocheilus*
lecontei at 29 Palms.

THURSDAY, AUGUST 17, 1933

229th
Day

136 Days
to come

Spent the evening material ready for Philips trip. Also took care of a number of specimens secured at the zoo today.

Yon Parkinson's sister called today. He is now located at a CCC camp in Utah.

Perkin's gave me the data on his trip to the desert Tuesday night.

- 1 Small gopher alive on the road $1\frac{1}{2}$ mi. E of Julian
 - 1 large *Multicincta* DOR at the same point (contained a large skelly).
 - ✓ 1 small horned toad at Banner. (80°)
 - ✓ 1 oncutti at San Felipe bridge.
 - ✓ 1 Gecko 3 mi. E of Narrows (92°)
 - ✓ 1 do $1\frac{1}{2}$ " " " "
 - 1 Leaf nose 2 mi. E of Narrows 8^{30} P.M.
 - 3 Sonoras (off road) same locality
 - 1 Arizona M 4 mi. E of the Narrows.
 - ✓ 1 Gecko 5 mi. E of the Narrows 8^{50} P.M.
 - 1 Arizona 6 mi. E. of the Narrows.
 - ✓ 1 Gecko 4 mi. W of County line 10^{00} P.M.
 - ✓ 1 " 5 " 10^{06}
 - ✓ 2 " 7 " (off road)
 - 1 Sonora 7 " "
 - 1 Leaf nose 9 " 11^{02}
 - ✓ 1 Gecko 9 " (off road)
 - ✓ 2 " 10 " 11^{20}
 - 1 Leaf nose 10 " "
- (10 mi. W. of County line = 4 mi. E of Narrows)

FRIDAY, AUGUST 18, 1933~

230th
Day

135 Days
to come

Still outfitting Phil for his trip.

As of this date there are about 20 rattlers to count.

Community Chest Budget Committee until late tonight.

Spent the morning pickling specimens and getting ready for a trip to San Francisco.

Phil started for Arizona this afternoon. Started for Los Angeles and San Francisco at 1:50. A clear cool day. Nothing seen in San Diego County or to Balboa; dark beyond. 54 miles in the county.

Stopped two hours or more with Aitken and Perkins in Laguna Beach. And looked at the material they had collected in the Huachuclas. They had a number of good rattlers and other material on which I hope to get locality data later. They got 4 Molossus and a considerable number of lepidus in the Huachuclas. Lost some of the lepidus from the heat crossing the desert. The molossus were of the mountain, clearly marked type. One lepidus gave birth to 8 young of which 7 were still alive when I saw them. These I measured and sexed but do not guarantee the latter; also measured and sexed a brood of 5 molossus; the sexing of these is OK.
(Continued in Aug 19th)

SUNDAY, AUGUST 20, 1933~

232nd
Day

133 Days
to come

Arrived in Oakland on the bark
at 9. Went to MVZ arriving at 9³⁰.
Met Grinnell and Linsdale. Worked
until 1. Went to lunch with Grinnell.
Worked until 9 P.M.

Caught up with all the new rattles
accessioned since the last visit; scaled
these complete. Also completed pricei
molepus and Camp's Seria made organus.

Had several long talks with
different people who came in, especially
Fitch (re his Gerrhonotus paper) Benson,
Sumner, and several others. Benson
told me he had tried a sidewinder in
the hot desert sun and it died in 11
minutes. Took away a lusk under
which it had been hiding. Became
suddenly stiff as if cooked.

MONDAY, AUGUST 21, 1933✓

233rd
Day

132 Days
to come

Worked all day in San Francisco.
Saw Alvin for half an hour at 5 P.M.
Caught the sunset for Los Angeles.

Arrived this morning on the Sunset at 8¹⁵. Got the car and drove out to Lincoln Park - the old Selig Zoo. Saw the reptiles. They have some fair pythons. The local snakes were not in any way unusual.

Then went out to see Hautenbrink's specimens at Cypress Ave, East Pasadena. He has a few specimens. Seen in good condition. Claimed to feed them white gey in water.

He had a very large and heavy female sidewinder. Found it to measure $27\frac{1}{4}$ inches. Also a boa from 29 palms. The stripes were light red; the edges not particularly even.

Arrived home at 13⁰. Miles in the County 53.6. Total for the trip 263.4

1 Red Racer Small DOR San Onofre Grass.

Talked on snakes before the Knights of Columbus tonight.

WEDNESDAY, AUGUST 23, 1933 v

235th
Day

130 Days
to come

Worked on Community Chest from noon until 6. Not feeling well tonight.

Recd snakes from Bogert and two specimens from Phil.

THURSDAY, AUGUST 24, 1933 ✓

236th
Day

St. Bartholemew

129 Days
to come

Recd today from Jack Brown
a medium Calif. King found in a
manhole in Santa Fe Springs.

Locality records from
Vontarkinson, in Utah.

Thamnophis elegans Moab

Rhinocheilus becoi "

Masticophis taeniatus Wendover

Crotalus c. lutosus Tooele Co.

Hypsiglena ochrorhynchus "

Diadophis r. regalis "

Liopeltis vernalis Wasatch Co.

Thamnophis o. vagrans } near Alton,
Utah, 7000',
Eumeces skiltonianus } ft.

He had a rattler killed and eaten
by a *Channa bottae*

FRIDAY, AUGUST 25, 1933

237th
Day

St. Louis of France

123 Days
to come

Budget Committee until late
tonight.

Notes from Philip's Arizona trip. Specimens
represented in the pickled collection are omitted.

aug 19
Longnose M DOR Camp Kearney brush.
Arizona E S DOR Bonsall brush-river
Platyrhinos DOR Ash Hill. S.B.Co.
Whips and Callys seen at Needles.
Cerastes L DOR 6 mi. N. of Topock
Chucks and whips DOR 6 mi. SW of Oatman
Chuck lost at gold road
Whiptail seen at Berry, Mohave Co.
Gopher M DOR Audley, fields.
Pacific or Scute L (dark maroon in color) DOR 5 mi
E of Relogian.

Gopher S. DOR Pineveta
Palmates L DOR Winona
Oregonus Long Valley, Coconino Co. (Rattle seen)
garter snake eating Ambystoma larva.
Oregonus 2 mi NE of Pine (Reported)
Skelly and collarie 5 mi. SE of Pine
Calles. Tonto Basin - Roosevelt Dam.
Apache Junction Atrox
Red Racer DOR Perryville (Maricopa Co).
Dip

SATURDAY, AUGUST 26, 1933 v

238th
Day

127 Days
to come

Spent the morning working on specimens. Then went to the zoo. milked 2 ruber. got several thin lucasensis to pickle. As of this date there are left at the zoo about 19 lucasensis (including feeders), 8 mitchellii and 3 enyo.

Recd today from Tennant Brooks an Oreganus from Cuyapaispe Indian Reservation (about 3 miles E of Laguna Mt - at first camp.)

Pickled specimens all afternoon
Out to dinner

SUNDAY, AUGUST 27, 1933

239th
Day

126 Days
to come

Milked rattlers this AM. gave the last of the lucasensis and mitchellii from Cape San Lucas their second milking. As of this date there are 22 lucasensis, 7 mitchellii and 3 enyo left at the zoo.

Got a couple of good records (one particularly good) of rattle speeds. The stylo graph paper seems OK at least for large rattlers. This was the first time this paper was tried.

Out to lunch. Pickled a few specimens in the afternoon.

Spoke to an appreciative audience of 73 at the Army - navy Y tonight.

Philip returned from Arizona tonight.

Sept 11 Recd 4 luc, 2 mitch, 1 enyo.

16 " 4 " 1 " 1 "

23 " 2 " 1 "

30 " 3 "

Oct 7 " 2 " 1 "

14 " 1 "

28 " 2 "

MONDAY, AUGUST 28, 1933~

240th
Day

125 Days
to come

Getting ready for Chicago trip.

Notes on Philips' return trip from
Chicago to Evanston, Wyo.

Sept 5

1 Snake DOR 6 mi E. of Fenton, Ill
(Saved)

Sept 6

1 Garter Snake DOR 3 mi. N. of Belle Plaine
(Saved).

1 P.s. sayi DOR Denison, Iowa

1 " DOR ~ mi. W of Denison

1 " (Lg) ~ mi. W. of Schuyler, Neb.

Sept 7

1 Hognose DOR ~ mi. E. of Ogallala
(Saved)

1 P.s. sayi. DOR ~ mi E of Dodgepole Lg

Sept 8

1 Confluens Lg DOR 3 mi E of Cheyenne

Rattles are said to be absent
at Evanston, but are plentiful at
Rawlins and Morgan, Utah.

TUESDAY, AUGUST 29, 1933✓

241st
Day

124 Days
to come

Spent the evening getting packed for the Chicago trip; especially selected items to check at the Field and Michigan museums.

WEDNESDAY, AUGUST 30, 1933✓

242nd
Day

123 Days
to come

Started east on the California
Limited with Phil at noon. Too
tired to work.

THURSDAY, AUGUST 31, 1933 v

243rd
Day

122 Days
to come

Enroute to Chicago. Worked on
Venom and paper as completed to date.
Too hot to undertake new work

Records from Trip by young Perkins
Pacific Rattles DOR $1\frac{1}{2}$ mi E of Julian
+ Sidewinder at County line.
1 Sidewinder $1\frac{1}{2}$ mi. W. of County line.
1 Red Racer DOR 2 mi E of Harrows
1 Banded Racer Banner

Sept. 3^d

Enroute to Chicago. Completed a rereading of the rattlesnake paper as finished to this date.

(Sept. 10th Continued from Sept. 5th)
Went 5 miles down the road (call it Logandale) and hunted for a little while, as Phil swam in the creek. Got a *Rana* ^{once} ~~piscens~~ and a *uta* or two. Whiptails were seen but not collected.

Also had hunted in the sand hills 4 mi E of Glendale. Here got a cally.

1 Red Kace, DOR Glendale. Desert.

1 Desert Tortoise walking in the road at Dike.

Had supper at Las Vegas and started south at 6 P.M. Pacific time. It was now sunset and warm. We hoped to get many specimens while crossing the desert. No luck at all not with standing ideal conditions. $\frac{1}{2}$ moon after 9³⁰

1 Sidewinder L DOR Cronie Desert.

This was all we saw on the desert. Exceedingly disappointing. We may have missed smashed snakes but certainly no live ones. Reached San Berdo a little after midnight and decided to go through. Reached San Diego at 3¹⁰. 550 miles for the day; 2291 from Chicago.

Arrived at Chicago this morning at 9³⁰. Installed Philip at the hotel — then went to the Chevrolet Sales agency for the new car with Newton.

Started for Ann Arbor in the car at 3³⁰ P.M. via U.S. 12. arriving at 11⁴⁵. Traffic rather bad because of the impending holiday. Rained almost steadily after sunset. There were quite a few toads on the road.

(Sept 3^d Cont)

discussion was had. Saw Ruthven's work room and a part of his library. LC Stuart promised to send me a list of the museum rattler collection. Saw the Taylor-Smith collection of rattlers — 2 atrox, 2 scutes, 5 triseriatus, 4 molossus and 3 ravus. Smith wants 3⁵⁰ each for them. They are not worth this much as they are not in particularly good condition. Saw the 2 USNM molossus from Lower Calif. — they are atrox. The island specimen mentioned by Bevan is a molossus; rather queer in color. Stuart had collected a number of good leucosus from the vicinity of Kanab. — at least one from Arizona. They were said to have been quite pink, but have now lost this color.

at Ann Arbor. Ready to leave the hotel at 8; had some difficulty in locating Gloyd as his phone had been disconnected and he was not at home. Finally located him at Gaige's where the Gloyds were stopping in the Gaige's absence on vacation. Blanchard and Ruthven also away on vacation. Met Gloyds at 9³⁰; found the Mg Nettings of Pittsburgh also visiting here. Sat around and talked until almost noon, while they ate breakfast.

Went to the Museum and were shown fossils by Prof. E. C. Case. Very fine and interesting. Then went to Gloyd's office and saw his collection and records. Had a late afternoon lunch then to Gaige's house and met L. C. Stuart (Ruthven's son-in-law) and G. L. Walls. Sat around and talked herpetology until 7³⁰. Went to the museum and looked at specimens and talked until 11, then back to Gaige's until 12 - then to the Allerel hotel. Nothing was accomplished today in the way of scale counts or measurements but many interesting specimens were seen and a fine
(Continued on Sept. 2nd)

MONDAY, SEPTEMBER 4, 1933

247th
Day

Labor Day

118 Days
to come

Got to the museum a little after 9 (Gloyd's office) expecting to check specimens and list his specimens. But there was too much conversation and discussion: people running in and out all the time. Very interesting but time consuming. Got a few specimens listed and measured some fangs. Mrs Gloyd promised to send me a list of specimens. Lunched with Gloyds, Nettings and Stuart.

Started back for Chicago at 1⁴⁵ via highways 112 and 20. Took the Nettings; very good company.

Travel was OK until somewhere near Rolling Prairie when there was a bad detour complicated by very heavy holiday traffic. This cost us an hour or more. Left the Nettings at an apartment on the South Side. It was now raining hard. Got the baggage from the Santa Fe, parked the car, and reached the hotel at 11⁴⁵. Found Phil OK.

Spent all day in the Chicago Office. Early supper - then went to the Exposition with Jacobs. Saw the Pageant of Transportation Cruises and General Motors buildings. Also the trains. Home at midnight.

Took until nearly 10 AM to get Philip's ticket validated, car packed and get him started west.

(Sept. 10th Cont.)

Hunted in a creek 4 mi. W. of St. George and found large and small toads quite plentiful (identification later). They were hopping in the grass by the stream. Would have thought it too hot and dry for them to be out for it was now nearly noon.

One small red racer was caught in the grass on the edge of the water. Whiptails were fairly common in the grass by the side of the stream and under the banks but we got only one. This would probably be a good place to hunt with more time available.

Stopped to hunt in rocks on the Shivit Indian Reservation but got nothing. Next hunted in a grove of

(Continued on Sept 6th)

All day in the Chicago office. Went to the fair from 5³⁰ to 10³⁰, spending almost all the time in the Hall of Science. Very hot and tired.

(Sept. 10th continued from Sept. 5th)
tree yuccas 5 mi E of the Utah - Ariz. line. Here we hunted hard and long for *Xantusia vigilis*. Found many dead tree yuccas branches on the ground but no luck. Can't but conclude that the *Xantusias* are not here as we turned over hundreds of branches. This is the best grove of tree yuccas seen between here and Mountain Pass, Cal. It is called Yucca Station. There are common yuccas here also but not many. There were plenty of termite colonies. *Uta* and *S. magister* were also seen. It was too warm for comfort but not really hot.

Shot a collared lizard at the Utah - Arizona line.

A large red racer was crossing the road at Littlefield, Ariz. He went down the bank but stayed out of the grass, so we shot and bagged him.

At Glendale, Nevada we turned south west down the road toward St. Thomas
(Continued on Sept 12th)

THURSDAY, SEPTEMBER 7, 1933

250th
Day

115 Days
to come

Went over to the office this morning to get some money. Went to the Fair with Jacobs from 10³⁰ to 3³⁰ spending most of the time in the Electric Building and ~~and~~ ^{and} ~~Udgett exhibit~~. Then went to the Field Museum and talked to Schmidt. Back to the Fair at 5PM and saw Snake Oids show. He eats little water snakes alive (spits them out later) and lets rattlers bite him on the fore arm. Probably no venom left.

Back at the hotel at 6³⁰; had dinner with Schmidt and talked with him until train time (10³⁵ daylight saving time)

(September 9th Continued from Sept 8)

The day was certainly disappointing from the standpoint of live snakes. Judging from the corpses it must be a good snake territory.

This country is not arid enough for sidewinders if they do get into Salt Lake it must be via the desert area to the west.

Miles for the day 348

Enroute west through Iowa and
Nebraska. Very hot and uncomfortable.
No inclination to do any work

(Sept 9 Continued)

✓ P.c. *stegnegeri* M DOR Beaver Bridge Reservoir
Low Dry grass and sage. This was 3 mi N
of dam

1 P.c. *stegnegeri* S DOR Beaver Dam Sagebrush
1 " M " " "

(this one 4 mi N. of Mullan Co line)

1 P.c. *stegnegeri* L DOR. 1 mi. S. of Mullan Co
line. Sage brush on side; stubble fields

1 P.c. *stegnegeri* L DOR Scipio

1 P.c. *stegnegeri* M DOR Holden. Stubble fields

A broad valley with hay fields around
Kanosh.

1 M.t. *taeniatus* L DOR 5 mi. S. of Kanosh Sage

1 P.c. *stegnegeri* S DOR. 10 mi SW of Kanosh Fields

1 M.t. *taeniatus* M DOR 7 mi. N of Cove Fort Juniper

1 do L DOR 5 mi. N of " Sage

1 C.c. *lutescens* L DOR Cove Fort Green Fields

1 M.t. *taeniatus* L DOR Pine Creek Juniper & grass

Reached Beaver at 6⁵⁰ and had supper.

Had been quite warm in the afternoon but
was now cold. Drove on to Cedar City in
the darkness. Nothing seen. Too dark for
dead snakes but would have seen live ones.

(Continued on September 7)

SATURDAY, SEPTEMBER 9, 1933

252nd
Day

113 Days
to come

This morning met Philip at Evanston, Wyoming at 8³⁰ the train being $\frac{1}{2}$ hrs. late a/c washout on the Denver branch requiring a wait for the connecting passengers. We then started for Salt Lake City via US 30 and US 530. The morning was cold and cloudy. Had hoped to get a rattlesnake between Evanston and Salt Lake to see what species is found in that area but no luck. The country is hilly, almost mountainous and high.

- 1 T.o. vagrans DOR 4 mi. NE of Castle Rock
- 1 do DOR Echo City (Lake)
- 1 do DOR Coalville
- 1 C.c. mormon S DOR Le Grand (about 8 mi E of Salt Lake)

Had lunch at Salt Lake. Bought a rr and other equipment. Left Salt Lake at 1:15

- 1 M.t. taeniatus M DOR 5 mi. N.W. Lehi
- 1 Gopher L. DOR Provo Grass
- 1 E. vernalis M DOR Spanish Fork Grass
- 1 T.s. parietalis L DOR 2 mi. E of Payson Grass
- 1 C.c. mormon L DOR Spring Lake Grass
- 1 P.c. stejnegeri S. DOR Starr Dry Grass
- 1 " M DOR 4 mi S of Nephi Dry Grass

South of here the country becomes increasingly arid. Less cultivation. Short sagebrush; rolling; some rocks and junipers
(Continued on Sept 8th)

Started from Cedar City today at 8³⁰ intending to drive to Las Vegas or possibly Mountain Pass but finally went all the way to San Diego. Cedar City is in a rather mountainous territory. Quite cold at night.

1 P.C. Stejneger L DOR 5 mi. N of Kanarraville. Sagebrush (light) - big flat valley. We now begin to descend and the country becomes increasingly arid. The first yuccas are seen between Pintera and Anderson. (3 mi S. of the former) although there are still some junipers.

We first hunted at Seeds - first on one side then on the other. We got a magister and some utas (stans). This is rocky and semi barren. There are some cacti. It becomes increasingly barren toward St. George. The first mesquite hummocks are noted between Washington and St. George. Around St. George the country is much cut up. Some rocky flats with sage; many red cliffs and black lava outcrops. Hunted in the mesquites 3 mi. W. of St. George but got nothing. It was now quite warm. lizards should have been plentiful.

(Continued on Sept. 5)

Called at the Zoo at noon and got the pickled specimens that had accumulated during my eastern trip. There were also several rattlers as a loan from Bevan, and a small *Sistrurus* from Slevin.

Recd from Chapman Grant a skink and a small *Rhinocheilus* from the camp at El Capitan.

Artran and Perkins called this evening on the way from Laguna to the Santa Ritas. They left two small molosses, one of the brood previously seen and another still born from a later brood (2 others alive) born Sept. 7th.

They wanted to buy (with specimens) the 9 mm. shot gun and the Stevens .32 shot gun. Said I would sell the former but not the latter; they still retain it as a loan. However the details of the deal were not arranged; there is no definite accounting.

Spent the evening catching up on all kinds of miscellaneous work.

TUESDAY, SEPTEMBER 12, 1933 v

255th
Day

Old Defenders Day—(Baltimore, Md.)

110 Days
to come

All kinds of miscellaneous work tonight to catch up.

Notes from a recent letter of Bevan.

Sends 7 specimens as a loan.

1 *Sistrurus catenatus edwardsi* from McEllan Co

3 *Atrax*; 3 *confluentus* north edge of lava bed 6 mi. E of Prewitt. Has a 7 lb red *atrax* from the same place.

newly born scute from Brewster Co, Tex.

Lepidus from Pecos River at Shumla

Earl Sanders writes that he has collected *C. cerastes* 9 mi. E. of mesa, Ariz.
More locality records later.

WEDNESDAY, SEPTEMBER 13, 1933✓

256th
Day

109 Days
to come

Put away specimens tonight.
At the Zoo tests with venom
distillate showed it to be harmless.

THURSDAY, SEPTEMBER 14, 1933^v

257th
Day

"Star Spangled Banner" Composed 1777

108 Days
to come

Miscellaneous filing tonight. Put away a few specimens. Worked on fairly length figures on species of which not enough specimens were previously available. Too tired from rote case to do much.

FRIDAY, SEPTEMBER 15, 1933^v

258th
Day

107 Days
to come

Working on specimens tonight.

SATURDAY, SEPTEMBER 16, 1933

259th
Day

106 Days
to come

Milked snakes, pickled specimens, tagged Utah series etc. Worked all day and evening catching up. Amongst other specimens milked the Bevan loan. The three New Mexico *confluentus* are the usual dark olive green with light borders on the blotches.

SUNDAY, SEPTEMBER 17, 1933 ✓

260th
Day

United States Constitution adopted 1787

105 Days
to come

Spent all day and evening
in the basement moving the lizards
and amphibians to the new shelves;
also rearranging the rattlers and
other snakes.

MONDAY, SEPTEMBER 18, 1933✓

261st
Day

104 Days
to come

Miscellaneous cleanup. Labelling
bottles.

TUESDAY, SEPTEMBER 19, 1933 ✓

262nd
Day

103 Days
to come

Movie tonight.

Went to El Cajon Rotary. 30
miles. Nothing seen.

WEDNESDAY, SEPTEMBER 20, 1933✓

263rd
Day

102 Days
to come

E.C. Harvey showed me a large
mitch. skin. Collected on Coahuila mt
in Riverside Co
left for San Francisco this morn.

THURSDAY, SEPTEMBER 21, 1933 ✓

264th
Day

St. Matthew
Jewish New Year

101 Days
to come

In San Francisco. Saw
Plevin between 4¹⁰ and 5³⁰. Made
a few fang measurements on exaul.

FRIDAY, SEPTEMBER 22, 1933^v

265th
Day

100 Days
to come

Returned from San Francisco this
noon

Found that Cook had returned
the young confluentus. I sent him to
do.

Recd today a medium ruler
from Chapman Grant and a
small patch-nose.

SATURDAY, SEPTEMBER 23, 1933

266th
Day

First Day of Autumn

99 Days
to come

Confluentus records from Paul McGraw,
Valentine, Neb.

Snake River 20 mi ~~W~~ S.W. of Valentine

Schlegel Creek 9 mi SW of Valentine

Worked all day and to 11 P.M.
filing the sheets on new specimens
accumulated during the summer,
and incorporating the broods and
sex ratios of juvenile groups in
the paper as already written.

Began, in the evening, the revision
of the fang section to incorporate
the new information.

SUNDAY, SEPTEMBER 24, 1933v

267th
Day

98 Days
to come

Worked most of the day on the fungi section. Made a number of changes, particularly the conclusions.

Pickled all available specimens; also labelled bottles and put them away.

As of this day all specimens of rattlers (except some of the large series of former years) are counted and put away, with the exception of 3. More nearly up to date than for a long time in the past.

MONDAY, SEPTEMBER 25, 1933

268th
Day

97 Days
to come

Today went out to Descanso, back down the Old Viejas Grade to El Cajon Rotary Club for lunch, thence to Ramona, Escondido and home. A moderately warm day.

- 1 *Rhinocichlus* M DOR Brush Chollos Hts
- 1 *M. f. frenatus* S DOR Grass El Cajon
- 1 *P. c. annexens* M DOR Grass Creek Viejas
- 1 *M. lateralis* L DOR Brush Viejas
- 2 *P. c. annexens* J DOR Grass Flinn Spr.
- 1 *P. c. annexens* J DOR Grass Bostonia
- 1 *M. lateralis* S DOR Grass-Fields Shady Dell
- 1 *T. o. hammondi* M DOR Grass San Tagoel.

The three juvenile gophers were just off the pavement. Saved two of them .136 mi.

The above entry should be under Tuesday Sept. 26th.

Community Chest tonight

Accounts tonight.(October 2nd Cent)

trips. Altogether he has got 11 leaf noses. Keeps desert snakes in sand. Leaf noses do well. They prefer to burrow under rocks. They are fed by putting the head of a termite in their mouths; they then swallow the insect readily. One has a temper (acquired in captivity) and will hiss and strike.

Gophers and kings eat young sparrows and also dead sparrows (shot). They seem to prefer to get a mouse by going into a hole after it.

A shovel nose would take termites off the tip of a stick. Fed every week on 2 or 3 termites.

WEDNESDAY, SEPTEMBER 27, 1933

270th
Day

95 Days
to come

Alice getting ready to leave
for college tonight

THURSDAY, SEPTEMBER 28, 1933 ✓

271st
Day

St. Wenceslas

94 Days
to come

Chapman Grant brought in
his entire El Capitan collection
tonight. He is ordered east
leaving Oct. 12.

FRIDAY, SEPTEMBER 29, 1933 ✓

272nd
Day

St. Michael and All Angels

93 Days
to come

Showed the snakes to the Torrances tonight. X-rays today.

Newspaper contains a high altitude record Snake Mountain at 9000 ft (near Porterville).

SATURDAY, SEPTEMBER 30, 1933 v

273rd
Day

St. Jerome
Jewish Day of Atonement

92 Days
to come

Spent much of the morning and early afternoon on miscellaneous collection work. In the afternoon finally began a reattack on the rattle statistics (which had been dropped April 9 last) and worked on this until late at night, making some progress with the new material accumulated since spring.

SUNDAY, OCTOBER 1, 1933

274th
Day

Missouri Day

91 Days
to come

Working all day on rattles.

Two of Gander's boys* this afternoon brought me 5 juvenile gophers from the vicinity of Westmorland. They were collected last evening when they worked the pavement east of the County line in the usual way at night. No live snakes were seen. They counted 19 of these little gophers between Westmorland and Brawley (all in the irrigated section) and thought from their condition that they must be run over in the late afternoon.

Worked late on rattles until completely tired out. Still tabulating full strings.

* Derbonne + Corwin

Tonight attended the organization meeting of the San Diego Reptile Club.

Gardner A medium Cal. boa (exhibited) ate baby mice readily, taking a total of 18 from time to time. Also tried to swallow a small sparrow. In eating mice it seizes in the mouth by any part and then quickly rolls around the prey. After that it works around to the head. Ate one dead mouse. This boa actually dug holes, & enlarged a hole by working the dirt out.

Wm DeBonne

Termites (termopsis) are the best food for all lizards such as horned toads, fence lizards, whiptails etc. He demonstrated with Coleonyx which readily ate them.

Coleonyx also eats roaches, butterflies and bees. They are the easiest lizards to feed. They are quite timid and will run away from food if it touches them. They rub bees vigorously in the ground to kill them. Have also taken bits of meat and bread.

Whiptails will eat almost anything. One ate 27 termites at a sitting.

Sheldon Campbell talked on the importance of keeping records.

David Regnery told of his desert hunting
(Continued on Sept. 26th)

TUESDAY, OCTOBER 3, 1933

276th
Day

89 Days
to come

Recd a young gopher from the
Park and a Boyles King from El
Capitan CCC Camp from Chapman
Grant.

WEDNESDAY, OCTOBER 4, 1933v

277th
Day

St. Francis of Assisi

88 Days
to come

Worked tonight on rattles, both
computations and making records
of rattle speeds of vibrations.

THURSDAY, OCTOBER 5, 1933✓

278th
Day

87 Days
to come

Rattle statistics tonight.

FRIDAY, OCTOBER 6, 1933

279th
Day

86 Days
to come

Worked late tonight tabulating
completed strings for dispersion constants.
Tried looking at rattles with
neon lamp at 60 μ . not much success.

SATURDAY, OCTOBER 7, 1933 v

280th
Day

85 Days
to come

Spent the morning and most of the afternoon on rattle tabulations. Also cleared up a good many specimens and other miscellaneous work in the basement.

Cook came in with Sam Hunter. Agreed to give him a days work Monday.

SUNDAY, OCTOBER 8, 1933 ♥

281st
Day

84 Days
to come

Worked all morning on rattle
tabulations finishing part on
attached vs. cast rattles. In the afternoon
got things ready for Cook. Movie in
the evening.

MONDAY, OCTOBER 9, 1933

282nd
Day

83 Days
to come

Cook worked in the basement all day. Checked hemipenes, pickled and labelled specimens. Packed shipment for Burt.

Recd rattlers today for examination from Kansas University and Field Museum.

Talked to Boy Scout Troop #4 at La Jolla tonight.

Oct. 10, Cont.

6-16-33 1 C. nuber killed by Camp boys.

6-18-33 1 L. g. boylii dor La Mesa

1 " " El Capitan.

Boyles in bottle ate a stupid racer.

6-21-33 2 L. humilis dug out 4 ft deep in side hill.

6-22-33 Boys killed 2 C. mitchellii and 1 C. nuber

6-26-33 Salvadora contained 8 horned toad eggs.

6-27-33 Salvadora contained whiptail remains

6-28-33 2 L. humilis 2 ft underground; lost.

7-9-33 Large C. nuber killed at camp

9-5-33 H. orchorhynchus dug out.

Cook worked in the basement all day.
Reed today a large box from
Chapman Grant.

Field notes from Chapman Grant's
El Capitan experiences. Also list of snake
records where specimen was positively
identified but not brought in.

6-3-33 M. lateralis contained tail tip and
hind feet of a lizard.

6-3-33 R. lecontei. 8 large eggs about 20 x 7

6-8-33 L. humilis about 4 ft down and 2 ft in
from face of a dirt bank.

Another taken just after dark in loose
soil a few inches below the surface.

6-11-33 Red racer 10 ft. up in branches of
live oak tree.

C. muler taken at night in El Cajon Valley.
Contained hind feet of mouse.

6-12-33 Striped Racer and Patch-nose DOR
near dam. Not saved.

L. humilis. Taken at night crossing
dry road in chaparral near camp.

6-14-33 M. lateralis. 8 eggs, 48 mm long.
Contained partly digested Anniella
pulchra.

1 C. C. mitchellii killed by boys.
1 C. muler " " "

(Continued on Oct. 9)

Cook worked in the basement all day.

The female *Oreganus* which has been saved in the basement, gave birth to 2 very immature young. Only a few inches long. Eyes dark.

Philip began work today bringing the card index of the specimen collection up to date.

Received today from Mrs. Grace Oliver Wiley three large cans containing 117 preserved rattlers. All formalin. Condition varies from good to very poor. Average medium. Went over them and decided which to add to collection.

THURSDAY, OCTOBER 12, 1933

285th
Day

Columbus Discovered America 1492

80 Days
to come

Cook worked in the basement all day.
Worked tonight with Cook, making
a final check on Kansas and Field
Museum specimens; also preparing
material for exchange.

FRIDAY, OCTOBER 13, 1933

286th
Day

St. Edward

79 Days
to come

Recd today a loan shipment
of 19 rattlers from the University
of Michigan.

Returned the Field Museum loan.
Cook worked all day today and
finished everything except several
Wiley broods, which he took along
to count.

Out to dinner tonight.

Phil started to bring the card
catalog of the collection up to
date.

SATURDAY, OCTOBER 14, 1933,

287th
Day

78 Days
to come

Worked all day packing specimens
for return and other miscellaneous work
Recd a small worm snake from
El Capitan.

In the evening started work on a
short bio paper for Copeia

SUNDAY, OCTOBER 15, 1933~

288th
Day

St. Teresa

77 Days
to come

Finished the boa paper in the morning. Then started a paper on rattlesnake range extensions, but found it would be too long for Copeia, so discontinued after working up two species. Then studied the triseriatus - pricei problem and took considerable time to plot the Mexican localities which are always hard to find. Got these fairly well worked out but found the situation too complicated for brief treatment.

MONDAY, OCTOBER 16, 1933 ✓

289th
Day

76 Days
to come

Pemberton wrote re Xantusia
riversiana on Santa Barbara Island
"There were only two of the dam lizards
on the whole island - 5 of us spent 4
hours turning every dam rock, board,
brush etc over and only found the
two of them. I think cuts have finished
off all lizards on that island. Not a
single lta or other lizard was seen -
it was a nice day too."

Worked tonight on plotting
rattle table R1

TUESDAY, OCTOBER 17, 1933

290th
Day

75 Days
to come

Recd today 19 rattlers from
McGrew, Valentine, Neb.

Worked tonight in dispersion
and dispersion curves.

WEDNESDAY, OCTOBER 18, 1933

291st
Day

St. Luke

74 Days
to come

Rattle dispersion calculations
tonight

THURSDAY, OCTOBER 19, 1933

292nd
Day

73 Days
to come

Company tonight, no work

FRIDAY, OCTOBER 20, 1933✓

293rd
Day

72 Days
to come

Worked until late tonight on the
dispersion of complete rattle strings

SATURDAY, OCTOBER 21, 1933 v

294th
Day

71 Days
to come

Spent part of the morning finishing the calculations begun yesterday. Then went over to the zoo and took some records of rattle speeds.

In afternoon more rattle tabulations. Then took rattle speeds on 17 specimens of *confluentia* from Nebraska. Calculated these in the evening.

SUNDAY, OCTOBER 22, 1933

295th
Day

70 Days
to come

Made fair headway on the problem of the dispersion of rattle-numbers vs rattle width: particularly studied the method of plotting the theoretical probability curves.

Also pickled 16 Nebraska confluentus and 2 S.D. oreganus.
3 Nebraska confluentus were reserved for the zoo.

MONDAY, OCTOBER 23, 1933 ✓

296th
Day

69 Days
to come

Probability curves and
probability paper.

TUESDAY, OCTOBER 24, 1933

297th
Day

St. Raphael

68 Days
to come

Still studying the use of
probability paper. Shipped specimens
to Bogert and Von Parkinson.

WEDNESDAY, OCTOBER 25, 1933 ✓

298th
Day

67 Days
to come

Worked on rattle statistics

THURSDAY, OCTOBER 26, 1933

299th
Day

66 Days
to come

Out to dinner.

FRIDAY, OCTOBER 27, 1933`

300th
Day

Theodore Roosevelt—Born 1858

65 Days
to come

Movie and rattle statistics

SATURDAY, OCTOBER 28, 1933

301st
Day

St. Simon and St. Jude

64 Days
to come

Worked hard all day tabulating
rattle statistics.

Recd a small series of Wyoming
reptiles from Barrett.

SUNDAY, OCTOBER 29, 1933 ✓

302nd
Day

63 Days
to come

All day on rattle statistics
except pickled a few specimens.
The rattle work goes very slowly.

MONDAY, OCTOBER 30, 1933v

303rd
Day

62 Days
to come

Today got 2 doz. rung kinders
and moved the rattles record sheets
around tonight.

Von Lyman Parkinson wrote me
today of a den near Bloom, Millard Co.?

TUESDAY, OCTOBER 31, 1933

304th
Day

Hallowe'en

61 Days
to come

made progress on rattle statistics tonight, particularly the division between adjacent probability curves to secure the limit of equal probability.

Talked to Kiwanis Club at noon on snakes.

WEDNESDAY, NOVEMBER 1, 1933

305th
Day

All Saints Day—(La.)

60 Days
to come

Tabulating attached rattle - vs - length

THURSDAY, NOVEMBER 2, 1933~

306th
Day

All Souls

59 Days
to come

Finished tabulating attached rattle - vs.
length.

FRIDAY, NOVEMBER 3, 1933

307th
Day

58 Days
to come

Movie tonight. A small amount
of tabulating done.

SATURDAY, NOVEMBER 4, 1933~

308th
Day

57 Days
to come

Worked all day and late
tonight tabulating length vs
attached rattle width.

SUNDAY, NOVEMBER 5, 1933

309th
Day

56 Days
to come

Finished this morning with the
curves of the length is attached
rattle and thus secured airages.

Worked all afternoon in the
basement preserving and storing
specimens.

MONDAY, NOVEMBER 6, 1933✓

310th
Day

55 Days
to come

Tonight attended meeting of the
reptile club (the second). Perkins
talked on his trip to the Galapagos.

TUESDAY, NOVEMBER 7, 1933

311th
Day

Election Day

54 Days
to come

Cook came this noon to do miscellaneous work. Tonight made labels and arranged them for pasting.

WEDNESDAY, NOVEMBER 8, 1933

312th
Day

53 Days
to come

Cerco worked all day.
Made a few calculations tonight

list of specimens from Arden and
Perkins fourth trip.

- 9-11-33
91 - *P.c. deserticola* DOR 2 mi E. Holtville 10 P.M.
Identified OK. Also small *Ariz.* same locality.
Not mentioned in list. Neither saved.
- 9-12-33
92 - *Sideromus* (not saved) *P.c. nuteis* (saved =
21490) DOR 10 mi E of Yuma (= Dublin)
1³⁰ AM saved.
- 93 - *Mitchellii* (head saved = 21491) Telegraph Pass
Gila Mts alt. 794 ft.
- 94 - *Pituophis* (head not saved). Yekol Valley
25 mi. E. of Gila Bend.
- 9-13-33
* 95 - Red Racer 61" crossing the highway 10-15 AM,
80°F Brushy flat 2 mi. E. of Tucson.
- 9-14-33
* 96 - Striped Garter, near Spring Yoas Ranch
7 mi. E. of Amado 10 AM.
- 9-15-33
* 97 - *Molossus* 43" crawling up rocky trail
in wash 6:15 PM. Alt 5000 ft. Montosa
Canyon, Santa Rita Mts (See Patagonia
quadrangle).
- * 98 King-neck. Between rocks on bank of
wash 9:15 AM, Montosa Canyon.
- 9-17-33
* 99 Sonora racer 60" - in rock wall in camp.
Saw his head 9 AM.
(Continued Nov. 9th)

Cook worked all day
Company tonight

(November 8th Cont)

9-18-33

- 100 * *Molossus* 45". In hole under boulders on south bank of wash. 11 A.M. Montosa Canyon.

9-20-33

- 101 * *Atrax* Crawling in ranch yard
* *Molossus* 44". Under boulder near camp 9 A.M.
* *Molossus* 43" Behind trade-rats nest in caliche cave on S. bank of wash 2 P.M.
Shed today.

9-21-33

- 102 * *Pituophis*. Crossing highway 20 mi. W of Tucson (= Marana) 9:15 P.M.
* *Pituophis* Crossing highway 20 mi E of Casa Grande 10:15 P.M. (= Picascho)
Arizona elegans DOR 18.75 mi E of Casa Grande. Saved heads (21493-2) = Picascho.
Also scute 15 mi E of Casa Grande. Seen but not saved.

All references to camp are Montosa Canyon.

FRIDAY, NOVEMBER 10, 1933

314th
Day

51 Days
to come

Cook finished early today.
All rattlers now counted and put
away.

Left for Los Angeles at 10³⁰ this
morning. A clear hot day. Nothing
seen except one possibility at 7-Points.

Stopped to see Artran and Perkins
at Laguna Beach. Found Perkins there
and agreed to stop on the way back.

SATURDAY, NOVEMBER 11, 1933

315th
Day

World War Armistice Signed 1918

50 Days
to come

Went out to see Bogert at his home this morning, returning his rattlers and receiving my *Salvadoras*. Talked snakes until about 11:30. Saw the skin of a *Sonora Semianulata* from Boulder Dam. Dark gray sides and dorsum with a series of bright red dorsal spots as wide as the usual line in the Imperial Valley specimens.

Returned to Santiago from the Stanford-VSC game. Stopped at Laguna Beach and was given preserved specimens by Artran and Perkins. Also borrowed a fine specimen of *Elaphe chorosoma* from Montosa canyon. Also saw a beautiful *M. taeniatus* said to be from Lordsburg, N.M. This is *M. t. t.* according to Ostenburger; it seemed brighter than the specimens from further north. Reached home at 9:30.

A list of specimens seen by A.S.P. on their last trip will be found under Nov. 8th.

Color description of a specimen of Elaphe chlorosoma from Montosa Canyon, Santa Rita Mts, Ariz.

The dorsal color is Saccardo's Olive somewhat lighter anteriorly and darker posteriorly, the head being Buffy Citrine. There is some yellow on the sides extending from the edges of the Ventrals. Blotches on the dorsum are faintly to be seen. The chin shields and lips are white. There are faint marks on the head. When stretched the skin between scales is dark. The sides of each scale are lighter, thus making a series of faint longitudinal light lines close together. The tongue is pink. Pupil black, iris yellow green. Pupil round. Double scale pits are quite clearly to be seen.

Spent the morning on specimens. Got a Texas horned toad from Chapman Grant, who has returned for a few days. Afternoon and evening on rattlesnake statistics.

MONDAY, NOVEMBER 13, 1933 ✓

317th
Day

48 Days
to come

Too busy and tired for rattles.

TUESDAY, NOVEMBER 14, 1933

318th
Day

47 Days
to come

Too tired to work.

WEDNESDAY, NOVEMBER 15, 1933v

319th
Day

46 Days
to come

Point Loma today. Saw a dead
snake but didn't stop.

THURSDAY, NOVEMBER 16, 1933✓

320th
Day

45 Days
to come

Helix, El Cajon, Tra Juana with
Holloway, Fowler and Geise. 45 miles,
nothing seen.

Company tonight.

FRIDAY, NOVEMBER 17, 1933^v

321st
Day

44 Days
to come

Out to dinner tonight.

SATURDAY, NOVEMBER 18, 1933\

322nd
Day

43 Days
to come

Didn't get much done today;
too tired after last night.

SUNDAY, NOVEMBER 19, 1933 ✓

323rd
Day

42 Days
to come

Worked hard all day on tabulations
(rattle) and made some progress on
write up.

MONDAY, NOVEMBER 20, 1933

324th
Day

41 Days
to come

Getting ready for trip to
San Francisco.

TUESDAY, NOVEMBER 21, 1933

325th
Day

Presentation B. V. M.

40 Days
to come

Started for San Francisco this evening at 7¹⁰. arrived at San Fernando at 11⁴⁵. Very heavy fog in places. Exceedingly hard driving

WEDNESDAY, NOVEMBER 22, 1933 ✓

326th
Day

St. Cecilia

39 Days
to come

Started for S.F. at 10 AM having been delayed by generator trouble and the necessity for repairs.

Arrived at 9:30 P.M. went via Pacheco Pass. Stopped for quite a while at Palo Alto.

One large gopher snake DOR at Berenda, Madera Co.

THURSDAY, NOVEMBER 23, 1933

327th
Day

38 Days
to come

In San Francisco:

Saw Sleer in a few moments in the
afternoon.

FRIDAY, NOVEMBER 24, 1933✓

328th
Day

37 Days
to come

In San Francisco. Working
all day.

SATURDAY, NOVEMBER 25, 1933^y

329th
Day

36 Days
to come

Stanford - U.C. game at Palo Alto.

SUNDAY, NOVEMBER 26, 1933 ✓

330th
Day

35 Days
to come

Worked at the Academy
measuring rattles from 10 A M
to 2 P.M.

Started home at 5 P.M.; arrived
at Tulare at 11 45.

MONDAY, NOVEMBER 27, 1933

331st
Day

34 Days
to come

Started from Tulare this morning at 9. Arrived home at 5³⁰. One gopher snake DOR at Slater, Kern Co.

Nothing seen in the County. Count 45 miles as OK.

Total miles for the trip 1198.

Miles from SF via La Jolla. 533.

Miles from Tulare today 297

TUESDAY, NOVEMBER 28, 1933✓

332nd
Day

33 Days
to come

Working tonight.

WEDNESDAY, NOVEMBER 29, 1933

333rd
Day

32 Days
to come

Too tired to work tonight

THURSDAY, NOVEMBER 30, 1933✓

334th
Day

Thanksgiving Day
St. Andrew

31 Days
to come

Worked on rattles this morning
and made some good progress.

FRIDAY, DECEMBER 1, 1933

335th
Day

30 Days
to come

Phil's party tonight.

SATURDAY, DECEMBER 2, 1933 ✓

336th
Day

29 Days
to come

Worked on rattles in the morning.
Too tired in the evening.

SUNDAY, DECEMBER 3, 1933v

337th
Day

St. Francis Xavier
First Sunday in Advent

23 Days
to come

Made some progress with rattles
this morning.

Went to Navy-Marine game with
church in the afternoon.

Worked on rattles in the evening.

MONDAY, DECEMBER 4, 1933✓

338th
Day

27 Days
to come

Meeting of the SD Reptile Club.
Heard of a mitch that ate a
squirrel shot in the field some
3 hrs. before.

TUESDAY, DECEMBER 5, 1933✓

339th
Day

26 Days
to come

Too tired to work tonight.

WEDNESDAY, DECEMBER 6, 1933 ✓

340th
Day

25 Days
to come

left for Los Angeles by train
this evening.

THURSDAY, DECEMBER 7, 1933

341st
Day

24 Days
to come

Returned from Los Angeles by train
this evening.

FRIDAY, DECEMBER 8, 1933

342nd
Day

Immaculate Conception

23 Days
to come

Talked to the Zoo class this
evening ; about 50.

SATURDAY, DECEMBER 9, 1933.

343rd
Day

22 Days
to come

Worked on rattles most of the day
and made some progress.

Worked on rattle write up this morning, preserved snakes in the afternoon. Rattles in the evening; made fair progress.

Rattle records from Baylor Univ. not represented in specimens recd. yesterday.

Othrox	Valley Mills, Tex
"	Austin, Tex
"	Waco, Tex
"	Christoval, Tom Green Co
"	China Springs, McLennan Co
"	Lampasas Co
"	near Iron Mts, Brewster Co
Lepidus	"
Hornediers	"over the line" in Coryell Co

MONDAY, DECEMBER 11, 1933v

345th
Day

20 Days
to come

This evening went to the meeting of the fellows of the NH Society. Met for the first time Vernon Bailey and Florence Merriam Bailey.

Chula Vista to lunch today.
15 miles. Nothing seen.

TUESDAY, DECEMBER 12, 1933 V

346th
Day

19 Days
to come

Zoe dinner tonight.

WEDNESDAY, DECEMBER 13, 1933 Y

347th
Day

18 Days
to come

About 150. rattlers arrived from
Jackey today.

No reptile work - other work
tonight!

THURSDAY, DECEMBER 14, 1933✓

348th
Day

17 Days
to come

Too tired to work tonight. Co
work besides.

FRIDAY, DECEMBER 15, 1933

349th
Day

16 Days
to come

Out to dinner tonight. Allison's.

SATURDAY, DECEMBER 16, 1933

350th
Day

15 Days
to come

Got a few of the Jackley rattlers
at the zoo this morning.

Worked all day on rattles; also
evening. Made some headway, on
N-W-L correlation

SUNDAY, DECEMBER 17, 1933.

351st
Day

Third Sunday in Advent

14 Days
to come

Milked 45 rattlers of the South Dakota series and pickled 25. Also made 10 rattle speed records. Noted a confluence with one hemipenis protruding and dried; another with bumps along the back evidently some kind of disease.

Spent balance of time on rattles. Some progress.

Proved quite certainly that rattle speed varies with temperature.

MONDAY, DECEMBER 18, 1933 ✓

352nd
Day

13 Days
to come

Not feeling well tonight - no
work.

TUESDAY, DECEMBER 19, 1933

353rd
Day

12 Days
to come

Still sick.

WEDNESDAY, DECEMBER 20, 1933 ✓

354th
Day

11 Days
to come

Not well tonight.

THURSDAY, DECEMBER 21, 1933 ✓

355th
Day

St. Thomas

10 Days
to come

Went to La Jolla tonight

FRIDAY, DECEMBER 22, 1933

356th
Day

First Day of Winter
Shortest Day of Year

9 Days
to come

movie tonight. not feeling well.

SATURDAY, DECEMBER 23, 1933 v

357th
Day

8 Days
to come

Some work done tonight.
Got considerable work done today
although feeling rotten

SUNDAY, DECEMBER 24, 1933v

358th
Day

Fourth Sunday in Advent

7 Days
to come

Worked on rattle today. Miscellaneous
write up.

MONDAY, DECEMBER 25, 1933✓

359th
Day

Christmas Day

6 Days
to come

Worked on the rattle write up most
of the day and made fair progress
although feeling rotten.

TUESDAY, DECEMBER 26, 1933

360th
Day

St. Stephen

5 Days
to come

milled 40 confluentia tonight.
Company for dinner

Cook started work this morning,
putting away the Wiley material,
counting scales and picking the
Sackley specimens.

WEDNESDAY, DECEMBER 27, 1933

361st
Day

St. John Evangelist

4 Days
to come

Milked 35 rattlers tonight. Out to
denies.

Cook worked all day.

THURSDAY, DECEMBER 28, 1933

362nd
Day

Holy Innocents

3 Days
to come

Still feeling badly tonight

Cook worked all day

FRIDAY, DECEMBER 29, 1933 ✓

363rd
Day

St. Thomas of Canterbury

2 Days
to come

Milked 31 rattlers this noon.

Earl Sanders and his wife from
Mesa Ariz. called today to see
the collection.

Cook worked all day.

Too sick to do anything tonight

SATURDAY, DECEMBER 30, 1933

364th
Day

1 Day
to come

Too sick to do anything except purely mechanical work. Finished the field trip entries for 1933.

Cook put up the rest of the South Dakotas.

Helped him do some counting; couldn't do much else.

SUNDAY, DECEMBER 31, 1933

365th
Day

St. Sylvester

Still sick. Helped Cook do a little counting. By tonight all South Dakotas were counted except about 30 pickled yesterday.

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

JANUARY

Date

CASH

Rec'd

Paid

FEBRUARY

Date

CASH

Rec'd

Paid

APRIL

Date	CASH	Rec'd	Paid
------	------	-------	------

MAY

Date

CASH

Rec'd

Paid

JUNE

Date	CASH	Rec'd	Paid
------	------	-------	------

JULY

Date

CASH

Rec'd

Paid

AUGUST

Date

CASH

Rec'd

Paid

SEPTEMBER

Date

CASH

Rec'd

Paid

OCTOBER

Date

CASH

Rec'd

Paid

RECAPITULATION

	Rec'd	Paid
Cash on Hand Jan. 1		
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
Total		
Balance to New Account		

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Subject to change; Consult Postmaster

SEALED PACKAGES: Third class matter (except circulars and miscellaneous printed matter) and fourth class matter may be closed against inspection when wrapper bears authorized printed indicia. If sealed without indicia, parcels are subject to first class rate.

SIZE OF PARCEL POST PACKAGES: Parcels must not exceed 100 inches in length and girth combined. Parcels measuring more than 84 inches but not more than 100 inches in length and girth combined, the minimum charge shall be the rate for a 10 pound parcel. The maximum weight limit is 70 pounds to all zones.

FEEs FOR MONEY ORDERS: Not exceeding \$2.50, 5 cents.

Exceeding	\$2.50	and not exceeding	\$5.00	7 cents
"	5.00	"	"	10.00 10 "
"	10.00	"	"	20.00 12 "
"	20.00	"	"	40.00 15 "
"	40.00	"	"	60.00 18 "
"	60.00	"	"	80.00 20 "
"	80.00	"	"	100.00 22 "

No money order issued for more than \$100.

REFORWARDING: Letters, post cards and other first class mail may be forwarded without extra postage. Other matter requires a new prepayment of postage.

FOREIGN

Letter postage for all foreign countries in the following list is 3c. per oz.; Argentina, Bolivia, Brazil, Canada, Chile, Columbia, Costa Rica, Cuba, Dominican Republic, Equador, Guatemala, Haiti, Honduras, Mexico, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Salvador, Spain and Colonies, Uruguay and Venezuela.

The letter rate to all foreign countries not in the above list is 5c. for the first oz. or fraction, and 3c. for each additional oz. or fraction. This includes the following: Bahamas, Barbados, Bermuda, British Guiana, British Honduras, Cayman Islands, Cook Islands, England, France, Netherlands, New Zealand, Tobago, Trinidad, Wales and Windward Islands.

REGISTRY: For all foreign letters, 15c. in addition to postage. For rates on other classes of foreign mail, inquire at post office.

Counting-House Calendar

1934

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